Service Manual

230-90353.940

A2400



ACO 9303 59471





CAL 2323 MB Art.-N° 59414

ACO 9303 PB Art.-N° 59471

PLA 5303 PL Art.-N° 59470

LOEWE.

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CAUTION:

These servicing instructions are for use by qualified service personal only. To reduce the risk of electric shock do not perform any servicing other then that contained in the operating instructions unless you are qualified to do so:



Note on electrostatic shielding

1. Electrostatically shielded MOS workstations

Components sensitive to electrostatic discharge must be handled at workstation with electrostatic shielding. An electrostatically shielded MOS workstation is fitted with discharge resistor which earth all conductive materials, including the technician working there. Dielectrics are discharged by air ionisation. The use of soldering irons and measuring equipment at shielded workstation is only possible in conjunction with isolating transformer in each of the devices used. Measuring equipment chassis are also earthed with discharge resistors.

2. Shielded packaging using conductive materials

To protect against electrostatic charges, electrically conductive plastics are used for packaging and transport purposes. Conductive plastics are available in the form of transparent protective bags, foam plastic, film sheeting or containers. Sensitive components requiring the use of protective packaging must only be packed and unpacked at shielded workstations.

Safety instructions

Warning: Before servicing this chassis, read the "X-ray radiation precaution", "Safety precaution" and "Product safety notice" instructions below.

X-ray radiation precaution

1. Excessive high voitage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this TV receiver is (A) kV at zero beam current (minimum brightness) under a 120V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.

Refer to table-1 for high voltage (A), (B). (See Adjustments procedures on page 1-13)

Each time a TV receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK pro-

- cedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
- 2. This TV receiver is equipped with a Fail Safe (FS) circuit which prevents the receiver from producing an excessively high voltage even if the UB voltage increases abnormally.
- 3. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
- 4. Some part in this TV receiver have special safety-related characteristics for X-RAY RADIATION protection For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

Safety precaution

Warning: Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The fol-lowing are the necessary precautions to be observed before servicing this chassis.

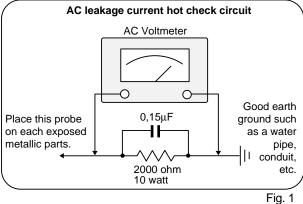
- 1. An isolation Transformer should be connected in the power line between the TV receiver and the AC line before any service is performed on the TV receiver.
- 2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
- 3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.
- 4. The regulations of the country concerned must also be observed.

Leakage current cold check

- 1. Unplug the AC cord and connect a jumper between the two prongs of the plug.
- 2. Turn on the receiver's power switch.
- Measure the resistance value with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis the reading should be between 4 M Ω and 20 M Ω . When the exposed metal does not have are turn path to the chassis the reading must be infinite.

Leakage current hot check

- 1. Before returning the set to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as antennas, temminals, screwheads, metal overlays, control shafts etc to be sure the set is safe to operate without danger of electrical shock Plug the AC line cord directly into a 120V AC outlet (do not use a line isolation transformer during this check) Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following man-
- 2. Connect a 2000 ohm 10 watt resistor, paralleled by a 0,15µF, AC type capacitor, between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time (Fig. 1). Measure the AC voltage across the combination of 2000 ohm resistor and 0,15µF capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.5 volts rms. This corresponds to 0.25 milliamp. AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



Product safety notice

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage. etc Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols "!\" on the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock fire X-ray radiation or other hazards.

Rear panel removal

Unscrew the five rear panel screws ${\bf R}$ to remove the rear panel. Insert screw driver into recess ${\bf V}$. Depress interlocking and at the same time slide rear panel to the rear (fig. 2a).

ACO 9303 MB / Press interlocking in direction of arrows and at the same time slide rear panel to the rear (fig. 2b).

How to move the chassis into the service position

- 1. Hold and lift the rear of the chassis and gently pull the chassis toward you (fig. 3).
- 2. Undo the cable fixtures. Turn the chassis through 90° anticlockwise and place the chassis behind the set (fig. 4).
- After servicing ensure all wiring is returned to its original position and fixed.

Service position for the signal board

- Remove the signal board from the main chassis (Basic board), ensuring all leads are disconnected.
- 2. Remove the four six (A) (fig. 5) from the plastic AV cover and unclip the AV cover from the signal board.
- Remove the front metal cover from the signal board (fig. 6).Do the same for the rear metal cover (fig. 7).
- 4. Fit the three extension leads to the signal board making sure that the signal board does not touch the basic board (fig. 8).
- After servicing ensure all wiring is returned to its original position and fixed.

Note:

The extension lead wire kit is supplied as a service kit. (Part number $3 \times 396-90288.938$).

Repair information for the signal board MediaPlus

There is any error on the signal board, please proceed as described:

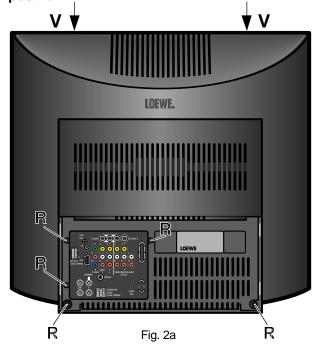
- Remove the EAROM (I 1891) from the printed circuit board. The TV is able to keep running.
- If you get a static picture, the EAROM is out of order (possible geometry errors remain unconsidered).
- If the error is still there, it's because of another component on the signal board.
- If you want to change the signal board at the service head office, insert the EAROM from the damaged signal board into the new one. So you don't need to make the alignment and the programming of the TV set.

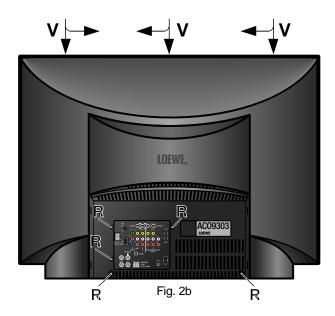
Important!

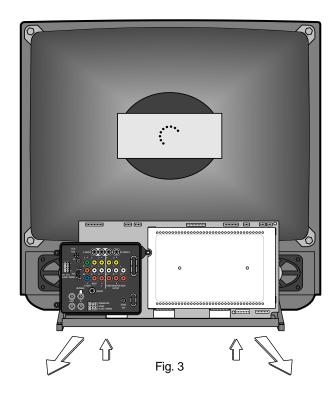
Please remove the AV cover at the damaged signal board.

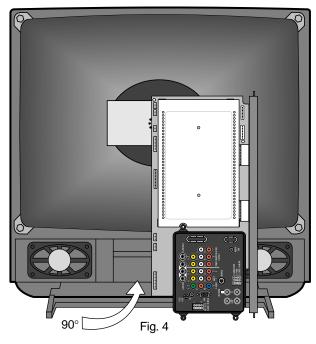
Rear panel removal

How to move the chassis into the service position

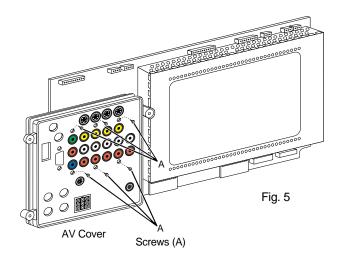


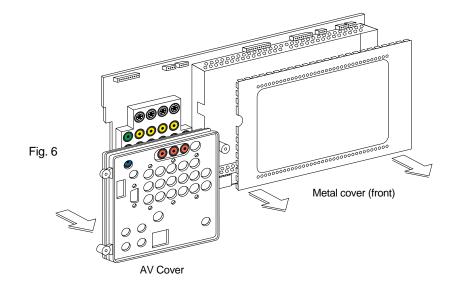


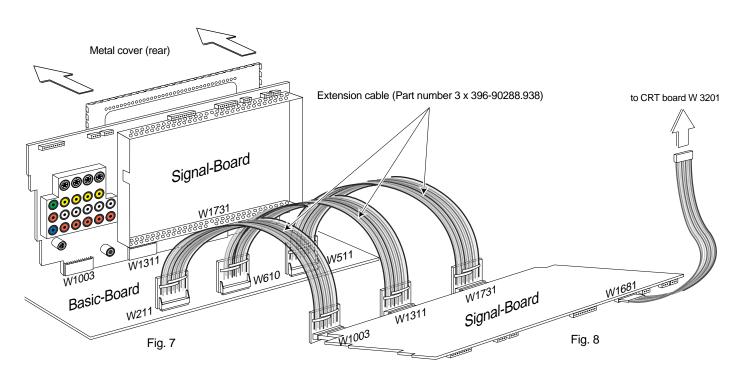




Service position for the signal board







Technical specifications

CAL 2323 MB

with micro digital chassis A 2400 / 8 bit

Picture tube: Philips 33" 4:3, picture diagonal length: 84cm (visible 79cm), deflection angle 110°,

heating voltage 6.3 Vrms (28Vp-p)/310 mA, degaussing each time the set is switched on

Power requirement: 96 to 132 V~, 60 Hz

Power consumption: 185 W (SB mode 1 W)

Vertical frequency: 60 Hz NTSC-M (progressive scan)

Horizontal freq.: 31500 Hz NTSC-M

Dimensions: 79 x 73 x 54 (W x H x D)

Weight: 54 kg

Connections

(front): Headphones jack with separate setting from loudspeaker, two cinch jacks for sound input, hosiden jack for video input

(back) Input signals: S-Video (AV I & AV II), Component Video (Y, R-Y, B-Y), video/sound (AV I & AV II), VGA (synch. & RGB), Audio VGA

Output signals: S-Video (AV II), video/sound (AV I Tuner), video/sound (AV II Monitor), Audio, ext. speaker 1 & 2

Features: Dialogue control system, MTS-sound decoder, tuning and memory system digital, digital channel selector ACP, OSD indication, Sharpness Control System (SCS), DTI Plus,

Automatic Volume Control AVC. Parental Lock, Digital Line Control (DLC), Digital Noise Control (DNC), Digital Line Interpolation (DLI), Automatic Movie Detection (AMD),

Digital Comb Filter, Photo CD, electronic alignment with the remote control,

hyperband tuner USA-PIP/hyperband tuner USA:

47 MHz - 861 MHz NTSC-M (3,58)

Standard selection by means with the remote control, Closed Caption, Extented Data System (XOS)

Audio system: 2 x 40 W for an impedance of 4 ohms, 4 loudspeakers, base broadening for stereo, spatial sound for mono

ACO 9303 MB

Technical specifications (deviating from CAL 2323MB)

Picture tube: Philips 32" 16:9 Real Flat, picture diagonal length: 81cm (visible 76cm)

Dimensions: 85,5 x 62,5 x 57,5 (W x H x D)

Weight: 55 kg

Connections

(front): cinch jack for video input

PLA 5303

Technical specifications (deviating from CAL 2323MB)

Picture tube: Philips 32" 16:9 Real Flat, picture diagonal length 81cm (visible 76cm)

Dimensions: 99 x 59,5 x 57,5 (W x H x D)

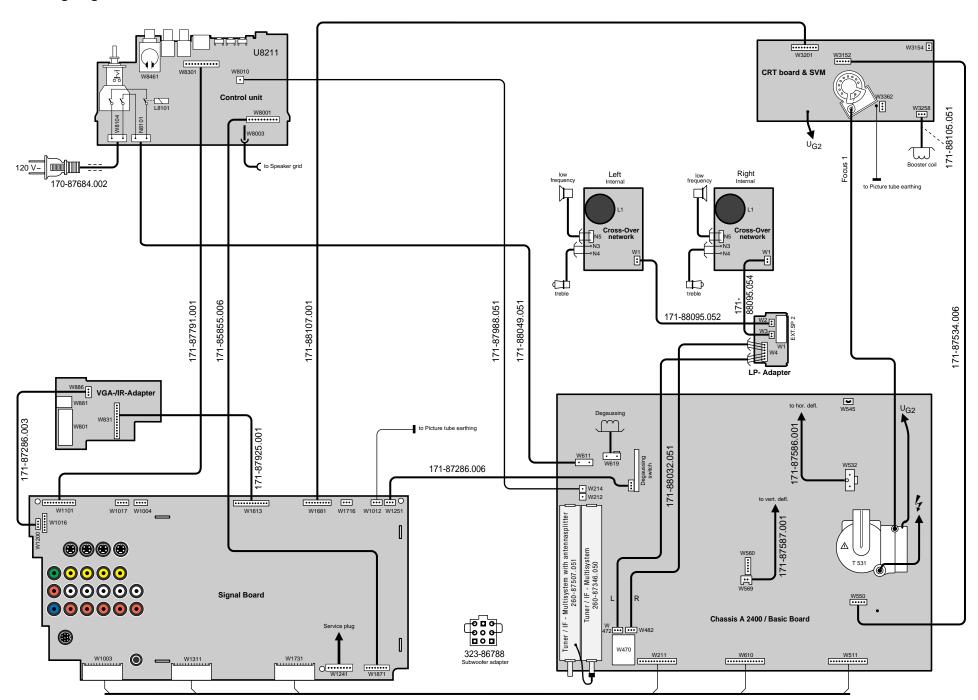
Weight: 52,5 kg

Connections

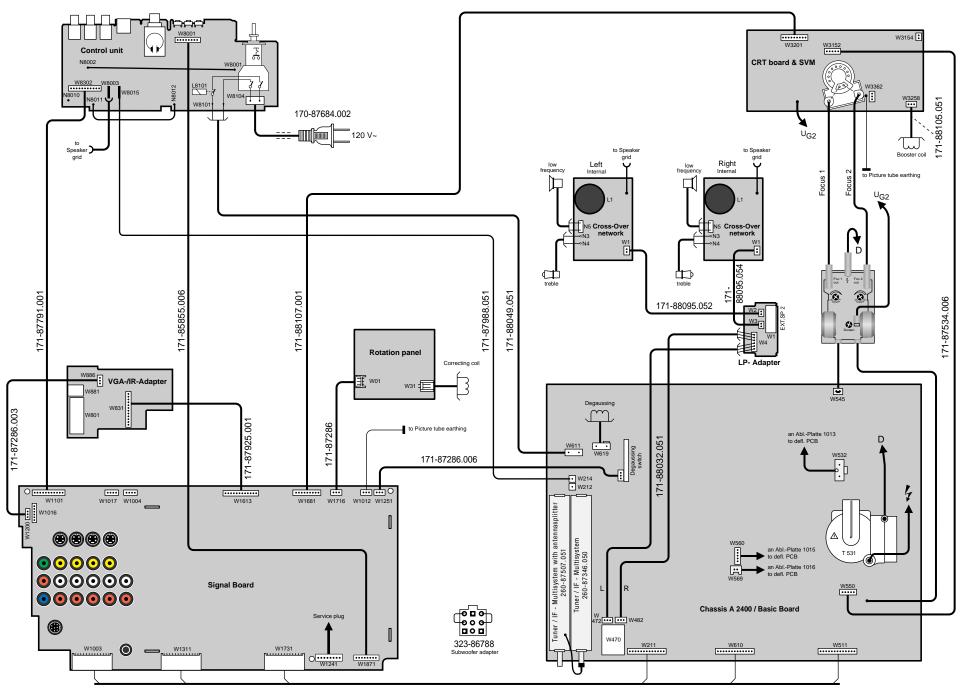
(front): Cinch jack for video input

Audio system: 6 loudspeakers

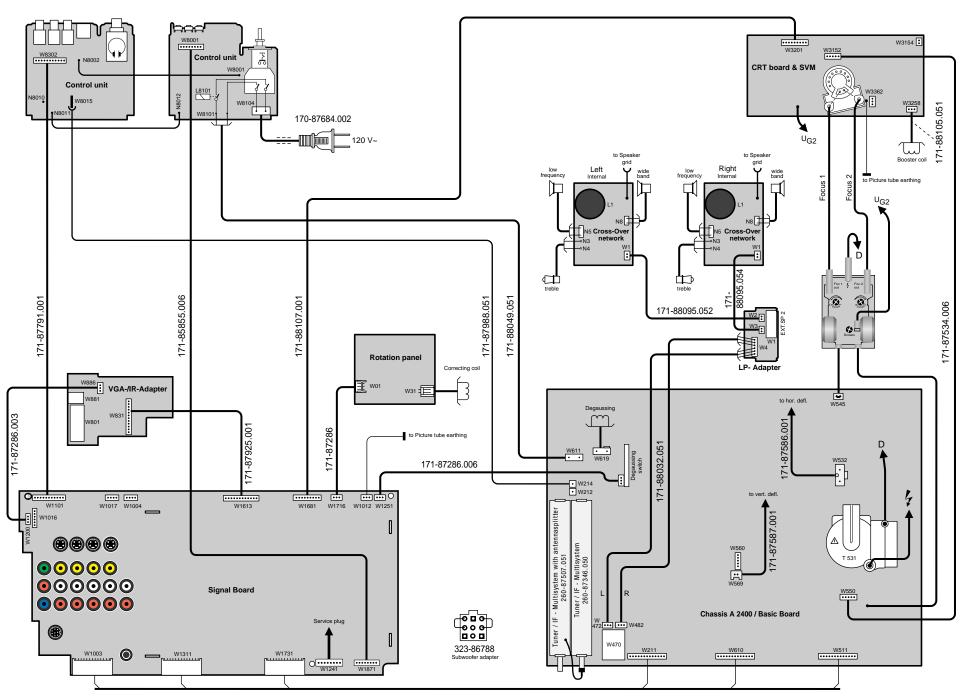
Wiring diagram • CAL 2323 MB



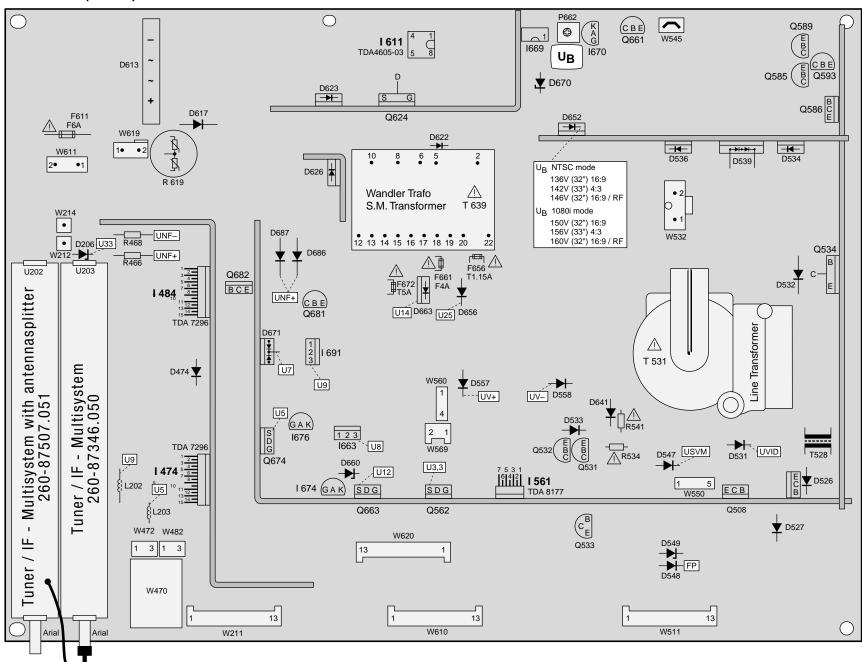
Wiring diagram • ACO 9323 MB



Wiring diagram • PLA 5303

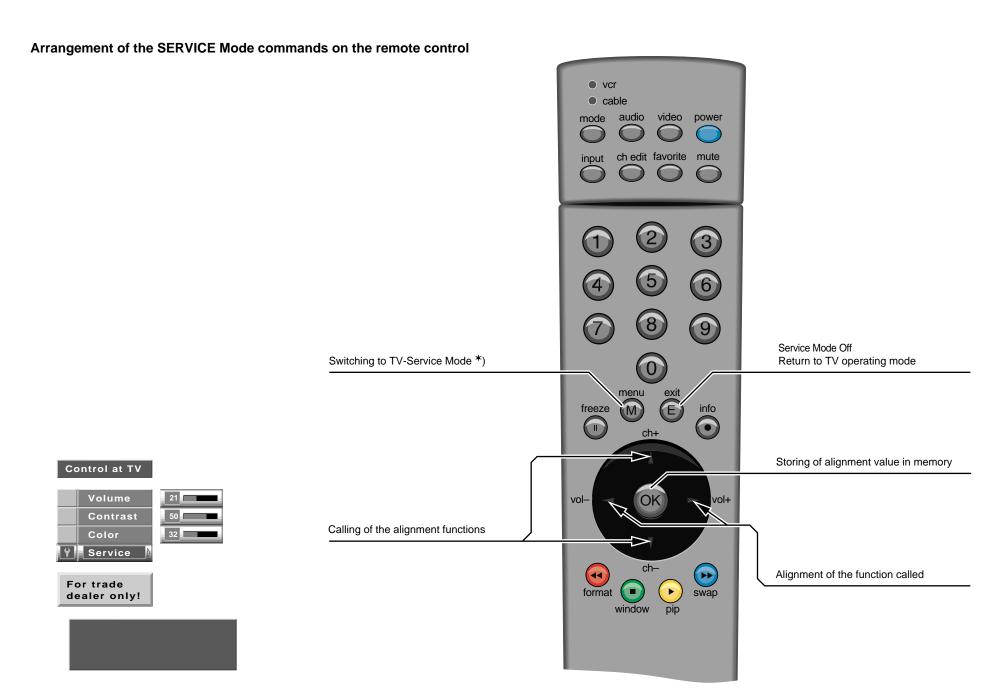


Basic Board (A 2400)



Service layout diagram

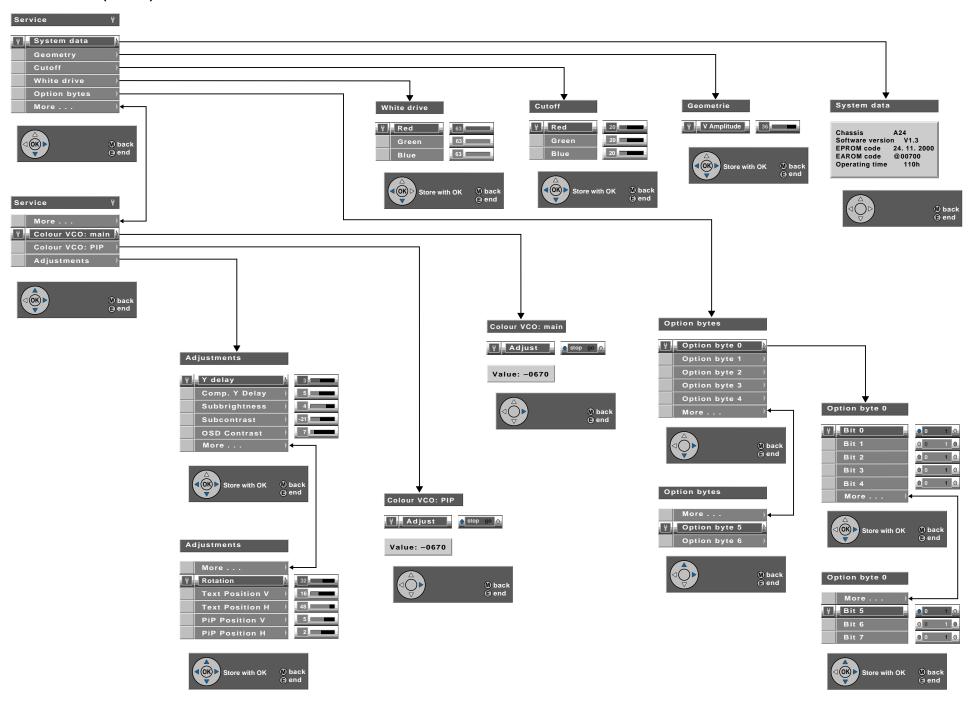
Component side



Entering Service Mode

*) On the local control press function key of four times (indication "Service" will appear), afterwards within a sec. press key on the remote control.

Service menu (A 2400)



Adjustment procedures

Service Mode A 2400

30.05.2000

High voltage at zero beam: (A) Max high voltage: (B)						
Picture size	High voltage					
33" / 4:3	142 V	A 31,0 kVB 32,0 kV				
32" / 16:9	136 V	A 33,0 kVB 34,0 kV				
32" / 16:9 Real flat	146 V	(A) 33,0 kV(B) 34,0 kV				

Measuring UB parallel to C651

High voltage at zero beam: Max high voltage: B						
Picture size	High voltage					
33" / 4:3	150 V	A 31,0 kVB 32,0 kV				
32" / 16:9	156 V	A 33,0 kVB 34,0 kV				
32" / 16:9 Real flat	160 V	A 33,0 kVB 34,0 kV				

Measuring UB plus pole C651 to Chasssis GND

Table-1

1. Function

Service mode permits the calibration of variable EAROM values.

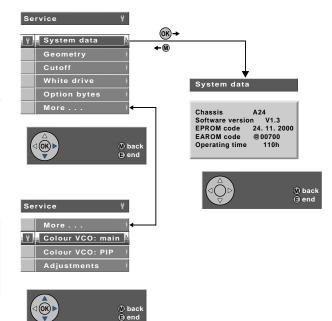
2. Entering Service Mode

The Adjustment sequence for the service mode is indicated in the pictures: "Arrangement of the service mode commands on the remote control" (p. 11). The set is now in the service mode basic routine and documents this with the following on-screen display.

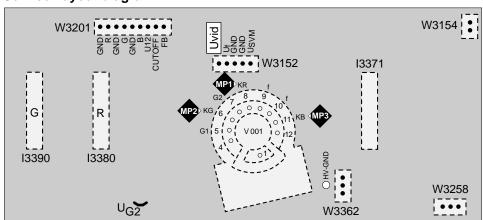
3. Instructions on Geometry Alignment

Vertical amplitude, Vertical position, Vertical linearity, Vertical symmetrie, Hor. amplitude, Hor. phase, E-W corr., Trapezium comp., etc will be adjustet separately for 50/60Hz vertical frequencies. Therefore they have to be regulated separately.

CRT:	4:3	16:9
- 50Hz - 60Hz	Test pattern: 4:3 4:3	Test pattern: 16:9 16:9



Service Layout diagram



Picture tube board & SVM Solder side

4. Alignment functions (0-12)

Aligi	nment functions	Display - Screen e.g.	Settings / special features
0	O Vertical Amplitude Geometrie V Amplitude xx		
1	Vertical Position	Geometrie V Position xx	Optimum setting
2	Vertical Symmetry	Geometrie V Symmetry xx	Color test pattern (FuBK)
3	Vertical Linearity	Geometrie V Linearity xx	
4	Horizontal Amplitude	Geometrie H Amplitude xx	
5	Horizontal Position	Geometrie H Position xx	Separate adjustments for the various screen settings.
6	EW Amplitude	Geometrie EW Amplit. xx	
7	EW upper	Geometrie EW Upper xx	
8	EW lower	Geometrie EW Lower xx	
9	Trapezium Correction	Geometrie Trapezium xx	Optimum settings
10	Vertical Bow	Geometrie V Bow xx	
11	Vertical Angle	Geometrie V Angle xx	
12	Horizontal Offset	Geometrie H Offset xx	

5. Alignment functions (13-21)

Alig	nment functions Display - Screen e.g.		e.g. Settings / special features			
13a	Cutoff Measuring Pulse	Cutoff Red xx Green xx Blue xx	At colour output stage (MP1, MP2, MP3) check the highest of the displayed tension. Use Ug2 controller in DST or controller unit to adjust: Cutoff = 148 ± 2.5V DC [Before that adjustment contrast has to be set to 50, brightness to 23 and colour saturation to 32. For all 3 colours Cutoff must display 20 and White Level (14) 63! All 16:9 TV sets have to be set to 16:9 mode!] Vert. blanking period (0.1msec)			
13b	Cutoff Reference Value	Cutoff Red xx Green xx Blue xx	In the grey area rise the missing two colours until black becomes standard, then store these values with "OK" key.			
14	White Level	White drive Red xx Green xx Blue xx	In the white area reduce the dominant two colours until black becomes standard, then store these values with "OK" key.			
15	Option bytes	Option byte 0 Bit 0 1 2 3 4 5 6 7 x x x x x x x x				
16	Option bytes	Option byte 1 Bit 0 1 2 3 4 5 6 7 x x x x x x x x				
17	Option bytes	Option byte 2 Bit 0 1 2 3 4 5 6 7 x x x x x x x	Caution!			
18	Option bytes	Option byte 3 Bit 0 1 2 3 4 5 6 7 x x x x x x x x	Here inputs and memorizing: a) in the event of necessary repairs b) if you wish to alter programs/norms			
19	Option bytes	Option byte 4 Bit 0 1 2 3 4 5 6 7 x x x x x x x x	For alignment method see Option Bytes Table			
20	Option bytes	Option byte 5 Bit 0 1 2 3 4 5 6 7 x x x x x x x x				
21	Option bytes	Option byte 6 Bit 0 1 2 3 4 5 6 7 x x x x x x x x				

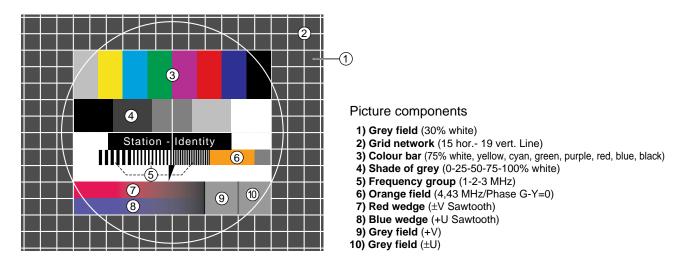
6. Alignment functions (22-37)

Aligi	nment functions	Display - Screen e.g.	Settings / special features		
22	22 Subcarrier Osc. Colour VCO: main stop start		Adjust zero beat (autom. adjustment)		
23	Colour VCO: PIP stop start		Adjust zero beat (autom. adjustment)		
24	Y Delay	Adjustments Y delay xx	Oakinaan aakinaa		
25	Comp. Y Delay	Adjustments Comp. Y Delay xx	Optimum settings		
26	Brightness Offset	Adjustments Subbrightness xx			
27	Subcontrast	Adjustments Subcontrast xx	Don't adjust!		
28	OSD Contrast	Adjustments OSD Contrast xx			
29	Rotation	Adjustments Rotation xx			
30	Vertikal Pos. TT	Adjustments Text Position V xx	Optimum settings		
31	Horizontal Pos. TT	Adjustments Text Position H xx	Opumum settings		
32	Vertikal Pos. PiP	Other adjustments PiP Position V xx			
33	Horizontal Pos. PiP	Adjustments PiP Position H xx			
34	EAROM Transfer via AV	Only program data From AV2 to TV stop start	Set expects external programming via EAROM programmer (Program locations)		
35	EAROM Transfer via AV	Only program data From TV to AV2 stop start	Set expects external programming from TV in the EAROM programmer (Program locations)		
36	EAROM Transfer via AV	All data ! From AV2 to TV stop start	Set expects external programming via EAROM programmer (all EAROM data)		
37	All data ! STANDARD		Set expects external programming from TV in the EAROM programmer (all EAROM data)		

7. Analog adjustments

Ali	Alignment functions outside the Service Mode (= analog alignment points)							
A	djustment	Signal	Condition	Mst. point	Adjustments	Settings / special features		
1a	Operating voltage	Test pattern (NTSC Mode)	110/120V~	Screen U _B Measuring UB C651	P 662 (Basic Board)	$142V \pm 0,5V \ (33") \ 4:3$ $136V \pm 0,5V \ (32") \ 16:9$ $146V \pm 0,5V \ (32") \ 16:9 \ / \ RF$ If necessary correct hor, amplitude afterwards!		
1b	Operating voltage	Test pattern (1080i Mode)	110/120V~	Screen U _B Measuring UB C651	P 662 (Basic Board)	150V ± 2,0V (33") 4:3 156V ± 2,0V (32") 16:9 160V ± 2,0V (32") 16:9 / RF If necessary correct hor. amplitude afterwards!		
2	Focus	Test pattern		Screen	Focus at the line trans- former or controller unit	Optimum settings		

Colour test pattern (FuBK)

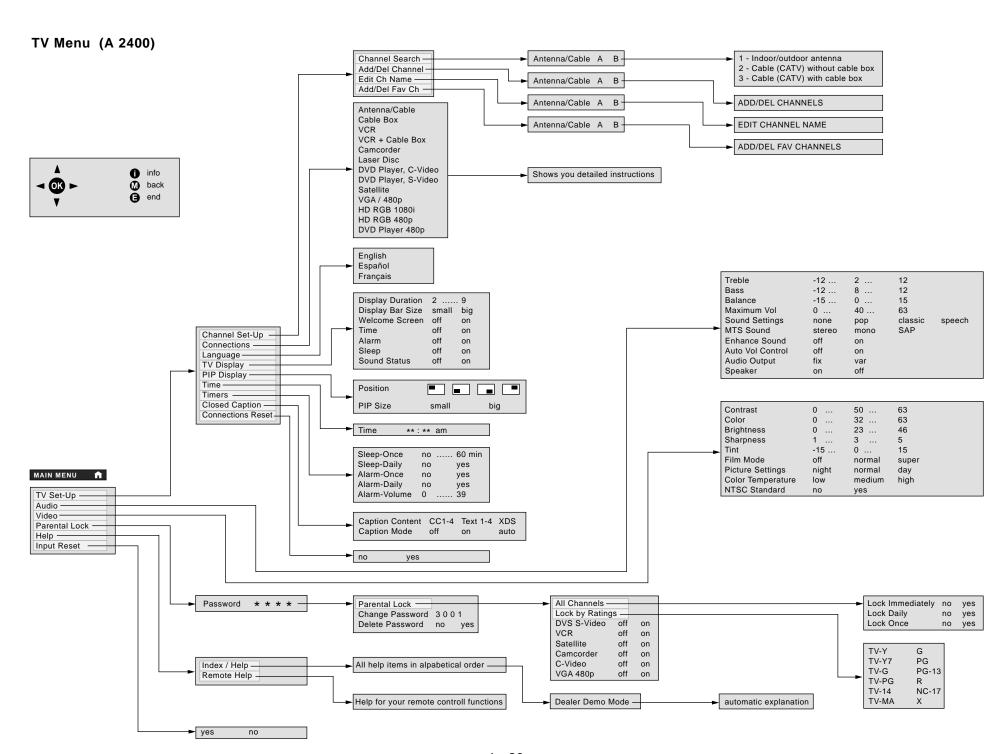


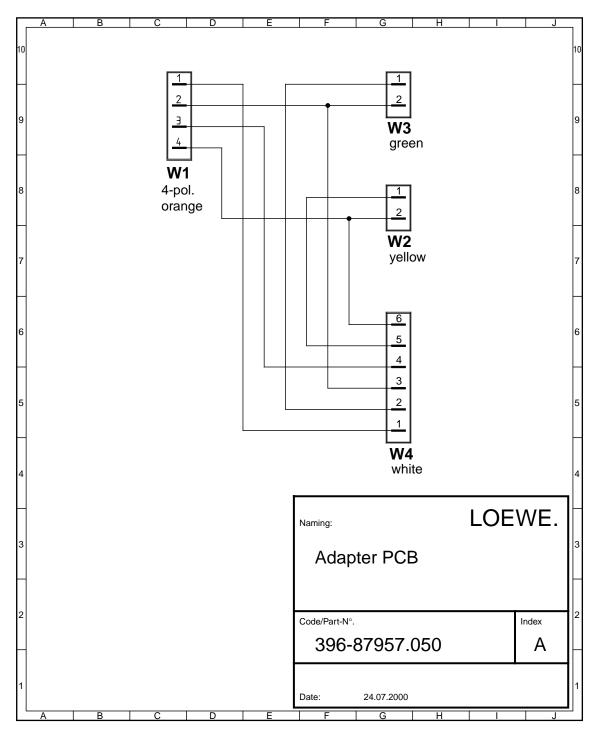
Option Byte Table

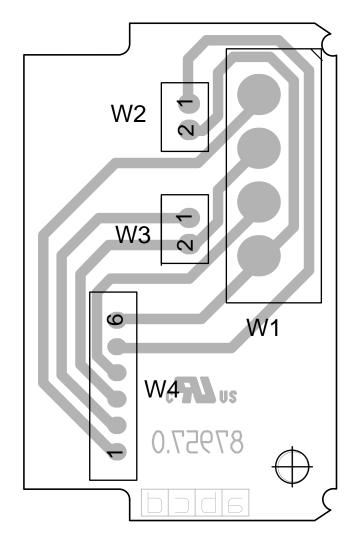
Alignement function					Adjusted in the factory		
	Bit-Nr. N°.	Meaning	"0"	"1"	CAL 33"	PLA 32"	ACO 32"
	Ν.				4:3	16:9	16:9/RF
	0	HDLC	Timeout	No Timeout	0	0	0
	1	Synch slicer threshold	not written	written	0	0	0
	2	Read sidepanel from	PROM (new BESIC)	EAROM	1	1	1
Byte 0	3	free	_	_	0	0	0
Dyte 0	4	Available TV-Mode	480 lines proscan	960 lines interlace	0	0	0
	5	Blue picture w/o signal	yes	no	0	0	0
	6	VGA Modul	yes	no	0	0	0
	7	VGA switch	delayed	undelayed	1	1	1
	0	Timer controlled prg switch	yes	no	0	0	0
	1	Auto YC on AV input	yes	no	0	0	0
	2	Text mode	black backround	drop shadow	0	0	0
Byte 1	3	Close caption	enhanced attr. off	enhanced attr. on	0	0	0
-	4	PIP	frame mode	field mode	0	0	0
	5	16:9 sets and PIP on	pan/cin/zoom possible	pan/cin/zoom impossible	0	0	0
	6	Auto PAL/NTSC via AV	no	yes	0	0	0
	7	Side panels	from VPC	from BESIC	1	1	1
	0	Auto color PAL/NTSC	only NTSC	always on (only for fafactory use)	0	0	0
	1	Indicate movie mode	no	yes	0	0	0
	2	Lock Mode VPC	no	via side panel color	0	0	0
	3	Blanking program switch	yes	no	0	0	0
Byte 2	4	VCR headjump meas line (VPC)	normal (line 5)	modified (line 3)	0	0	0
	5	AGC memory	off	on	1	1	1
	6	Reaction of del commands	fast	slow	0	0	0
	7	Auto movie source detect.	disabled	enabled	1	1	1

Option Byte Table

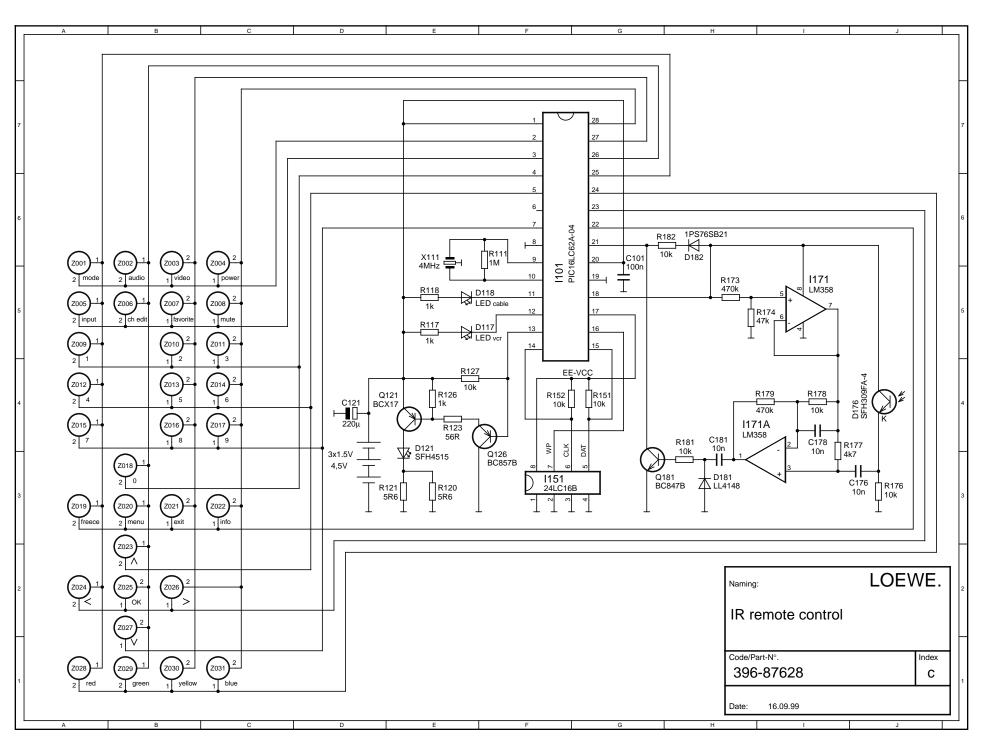
Alignement function	Bit-Nr. N°.	Meaning	"0"	"1"	Adjusted in the factory		
					CAL 33"	PLA 32"	ACO 32"
					4:3	16:9	16:9/RF
Byte 3	0	Default aspect ratio	enabled	disabled	1	1	1
	1	Picture size	4:3	16:9	0	1	1
	2	Rotations coil	no	yes	0	1	1
	3	Split screen vert. delay	disabled	enabled	0	0	0
	4	Switch-off autom. (w/o Sync)	yes	no	0	0	0
	5	Warm up mode	off	on	0	0	0
	6	free	_	_	0	0	0
	7	First switch on	no	yes	1	1	1
Byte 4	0	Sound ident info OSD active	no	yes (only for test)	0	0	0
	1	Auto volume control (AVC)	slow	fast	0	0	0
	2	50Hz progressive scan	disabled	enabled	0	0	0
	3	60Hz progressive scan	disabled	enabled	1	1	1
	4	Auto movie detect (AMD)	fast	slow	1	1	1
	5	Warm up mode	on	off	1	1	1
	6	Chroma inverter BESIC	on	off	0	0	0
	7	free	_	_	0	0	0
Byte 5	0	Scan velocity modulation	disabled	enabled	1	1	1
	1	Welcome screen	from EPROM	from EAROM	0	0	0
	2	Output selected	monitor	tuner	0	0	0
	3	Basic board	Q2460	Q2400	0	0	0
	4	VGA synch switching	old	new	1	1	1
	5	Values for upconversion	automatic	manual recursion	0	0	0
	6	Input locking source	input 1	VGA	0	0	0
	7	Input locking	off	on	0	0	0
Byte 6	0	Gamma-settings (1080i)	from EAROM	from EPROM	0	0	0
	1-7	free	_	_	0	0	0

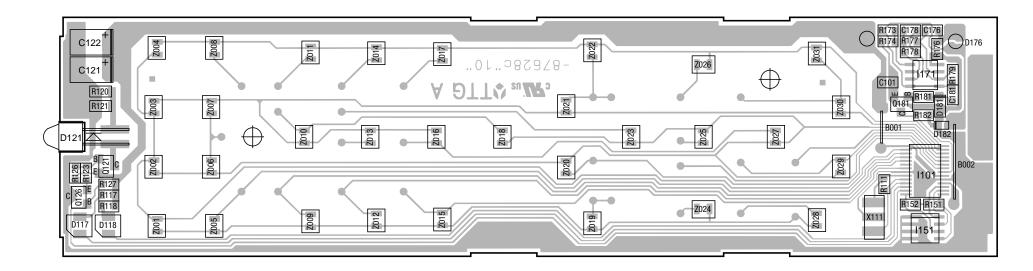






Adapter PCB 396-87957A Components side

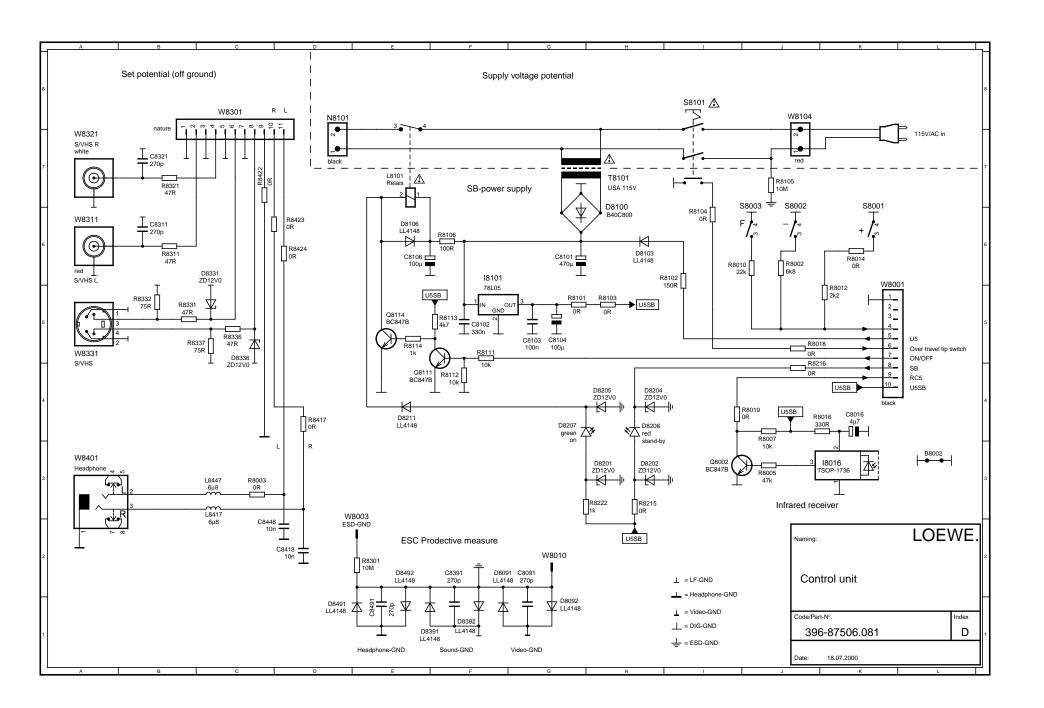


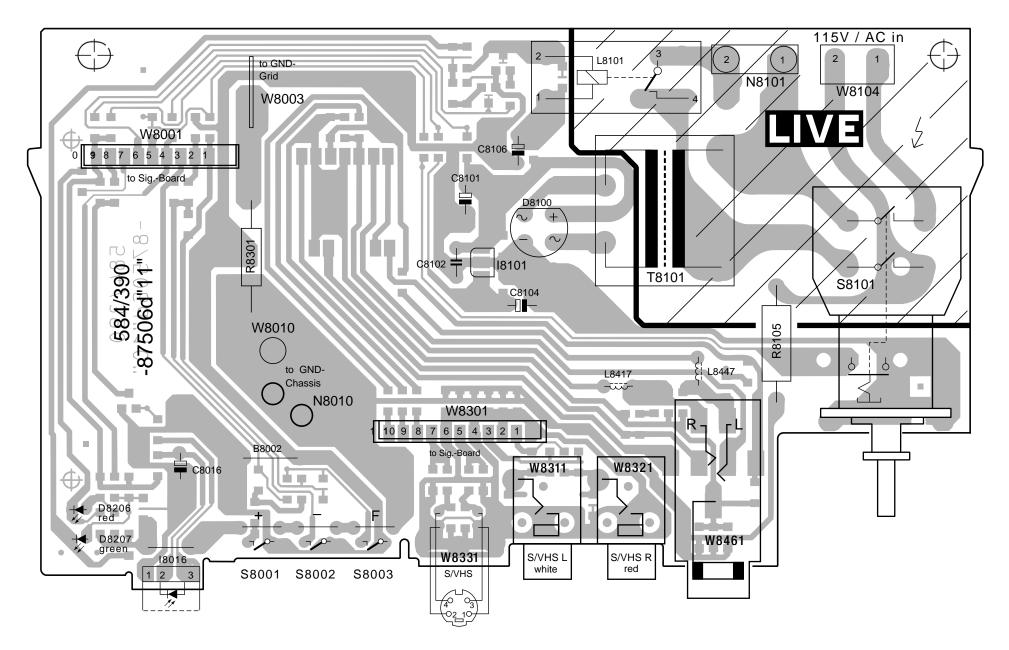


Infrared remote control PCB

396-87628C

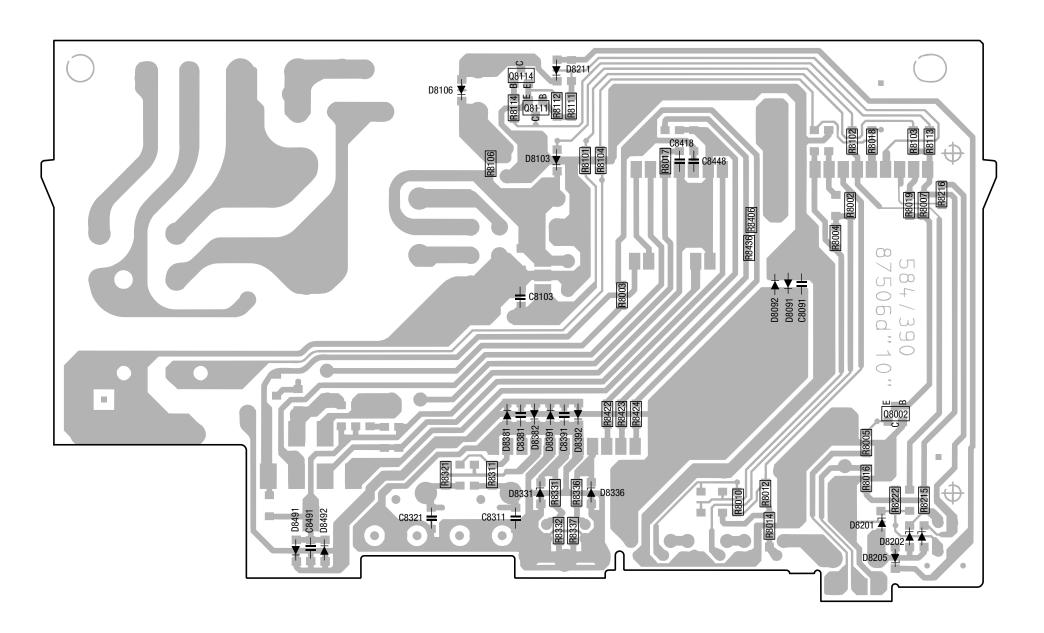
Components side





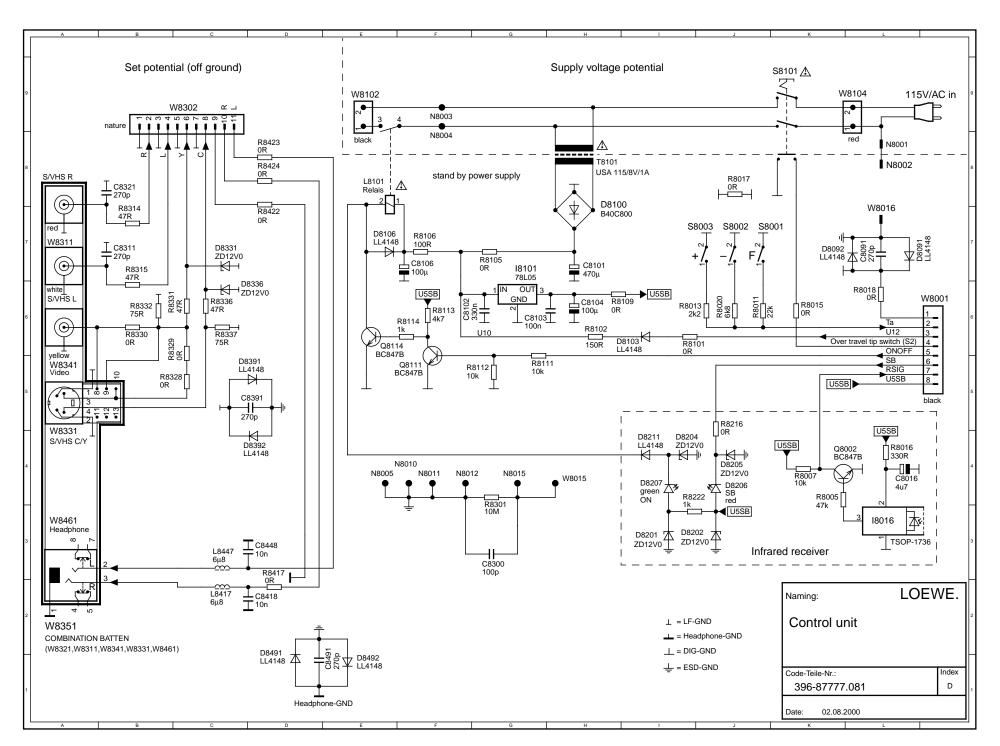
Control Board Components side

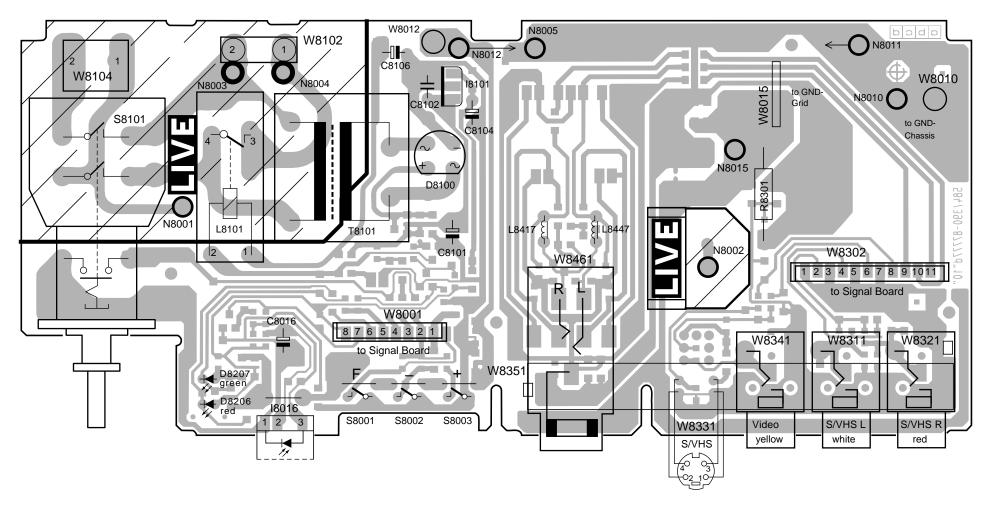
396-87506.050



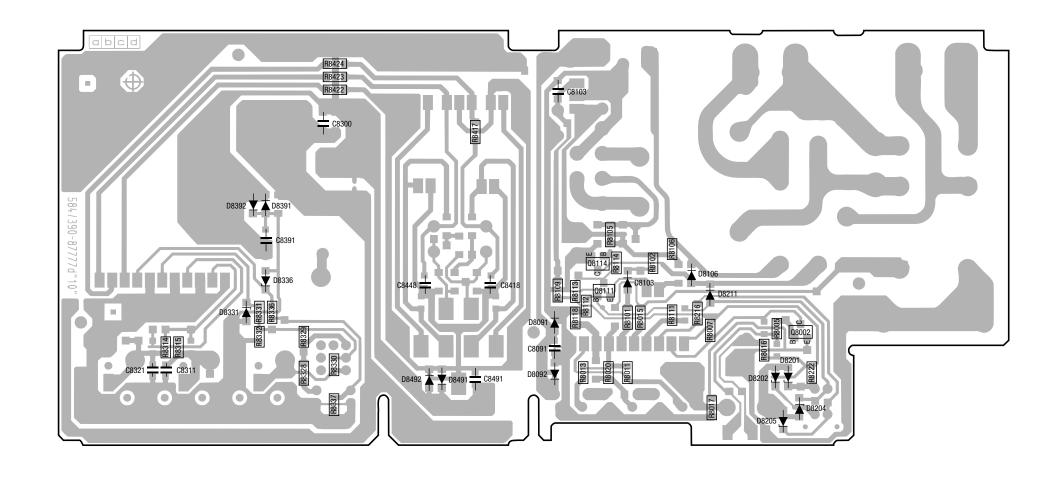
Control Board Solder side

396-87506.081

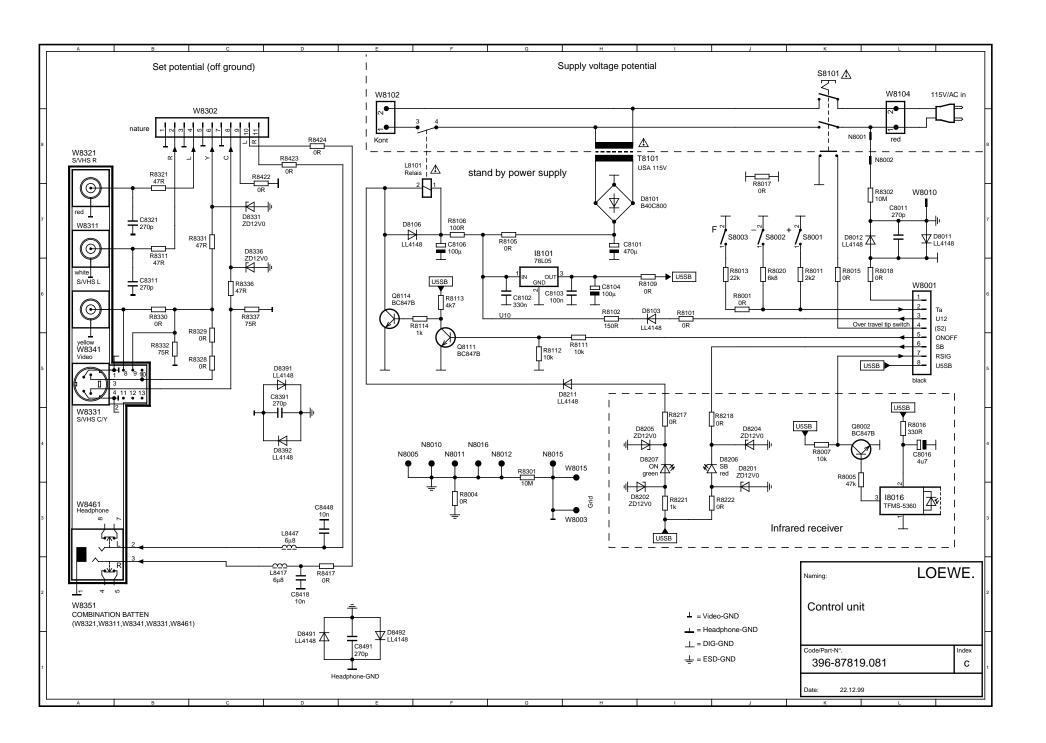


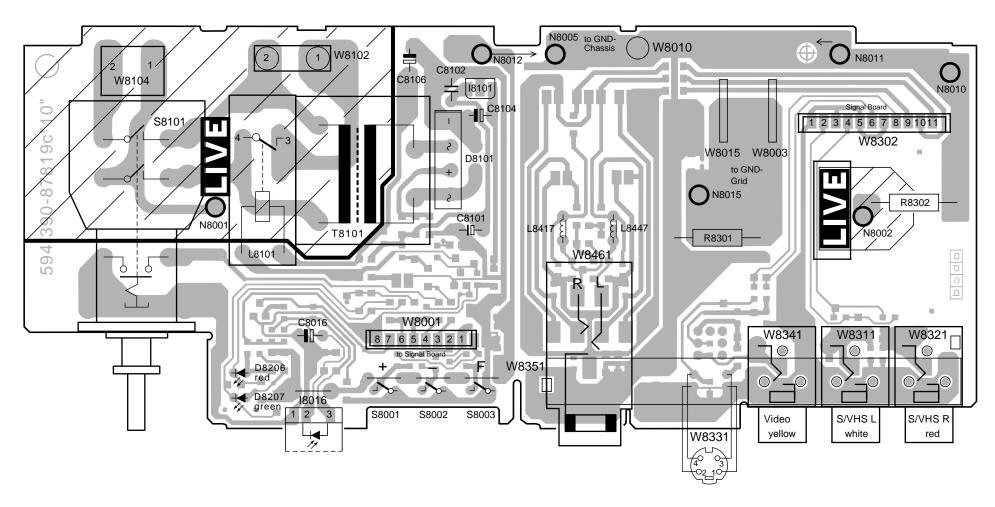


Control Board 396-87777.081 Components side



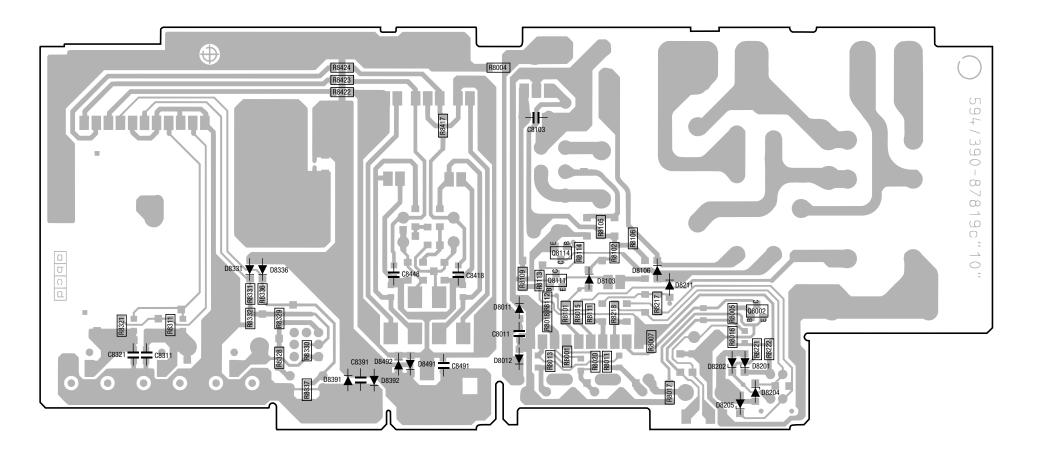
Control Board 396-87777.081 Solder side





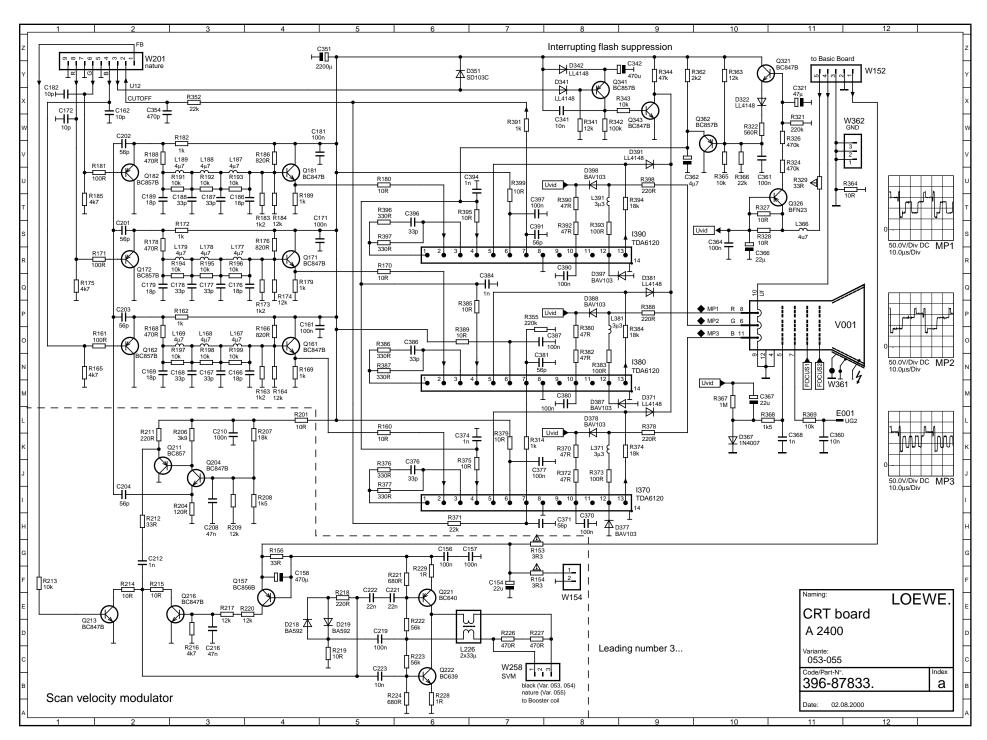
Control Board
Components side

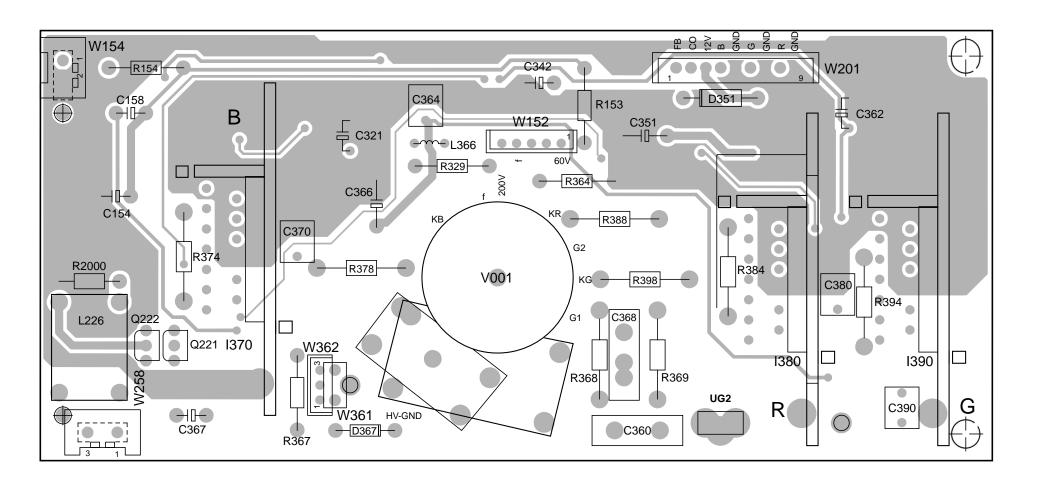
396-87819.081



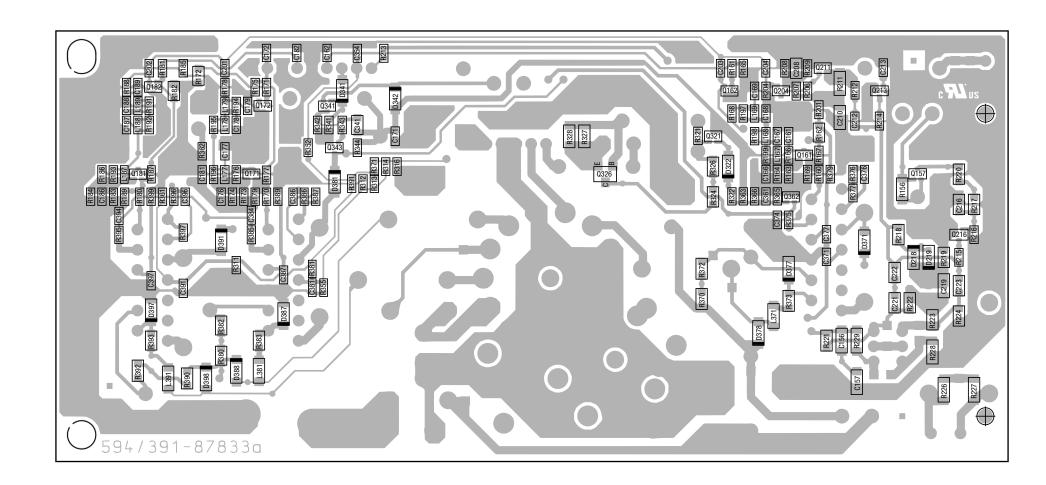
Control Board
Lötseite • Solder side

396-87819.081

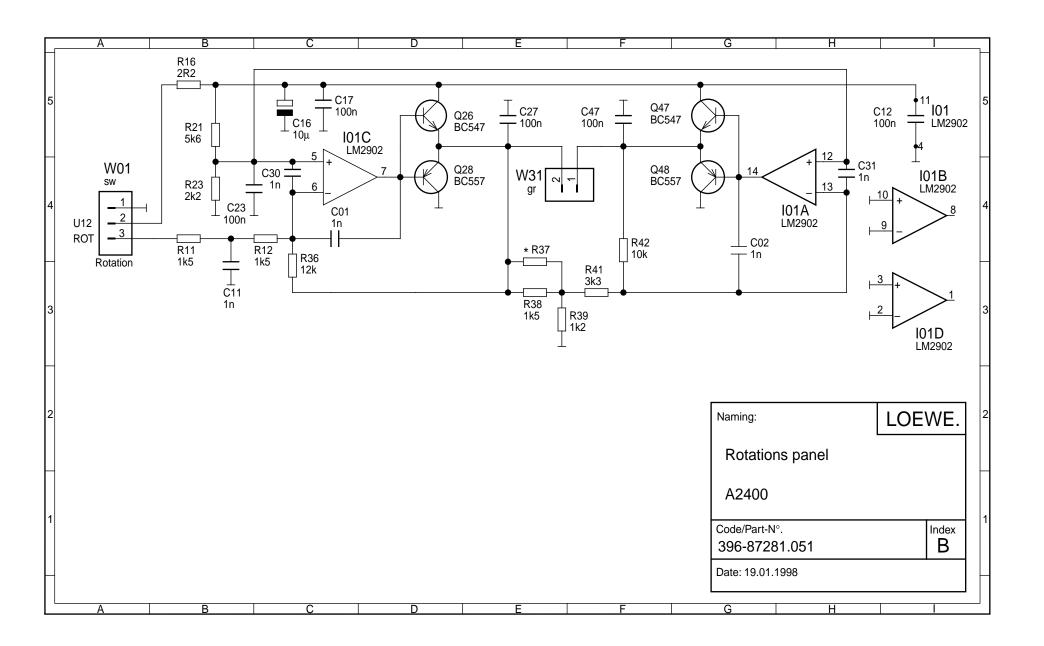


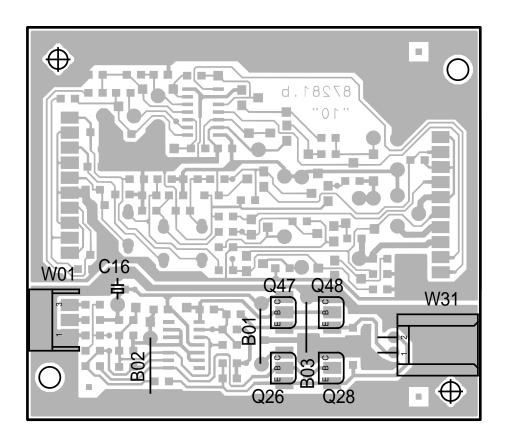


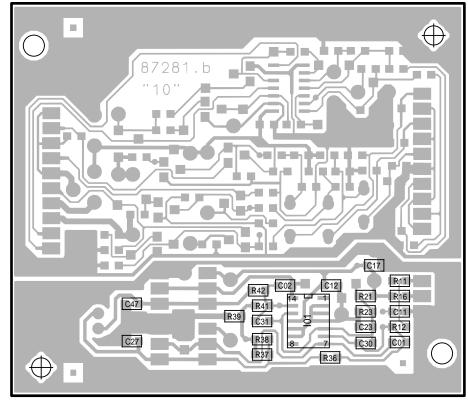
Picture tube PCB 396-87833A Components side



Picture tube PCB 396-87833A Solder side

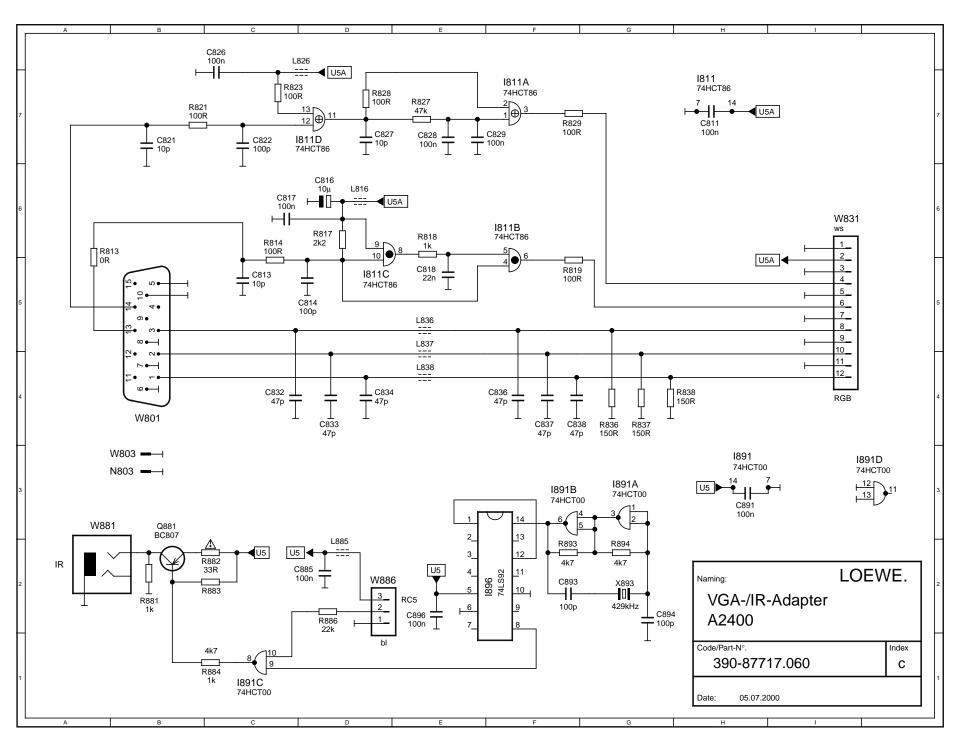


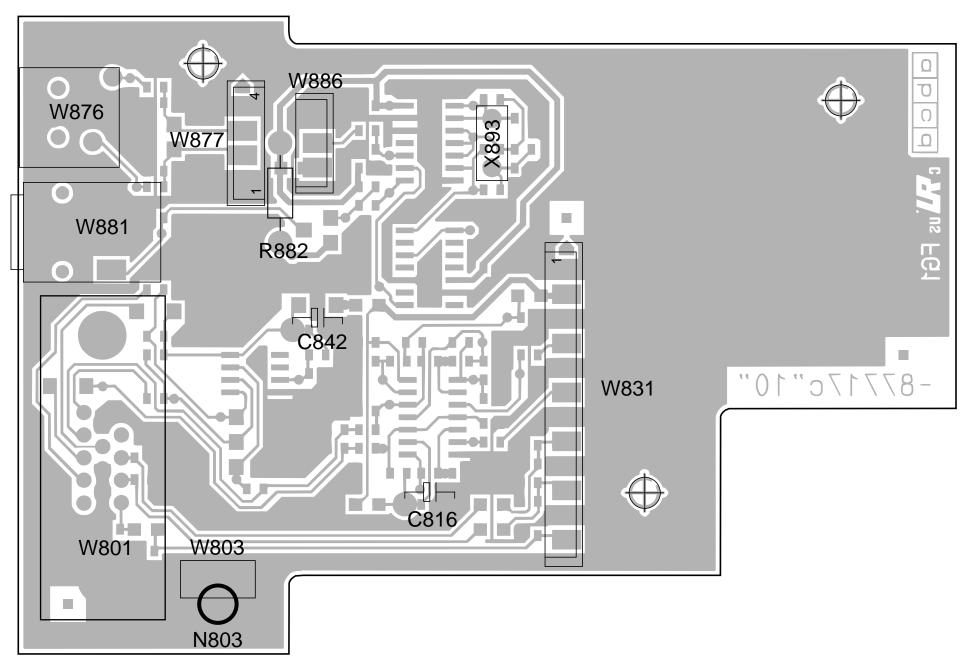




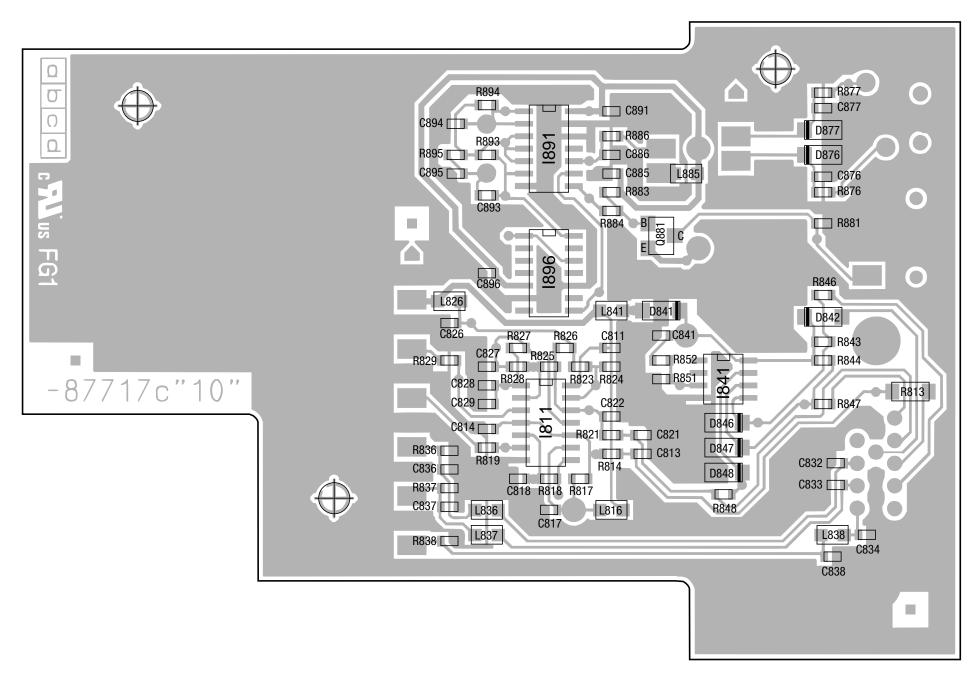
Rotation Panel PCB 396-87281.051 Components side

Rotation Panel PCB 396-87281.051 Solder side

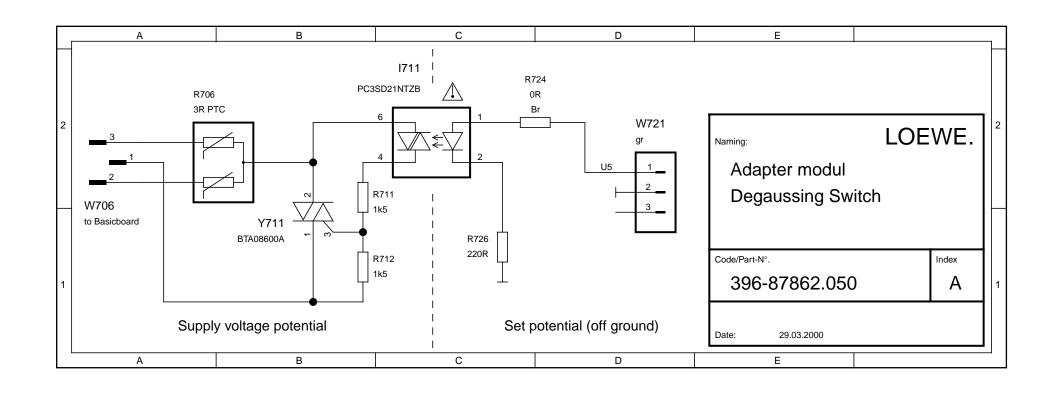


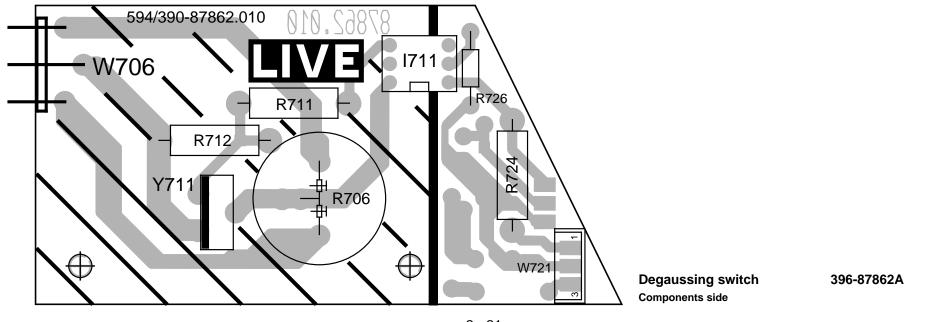


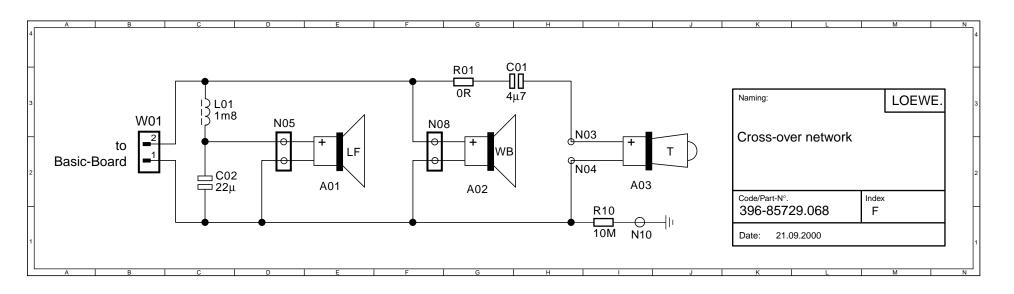
VGA-/IR-Adapter Components side 396-87717C

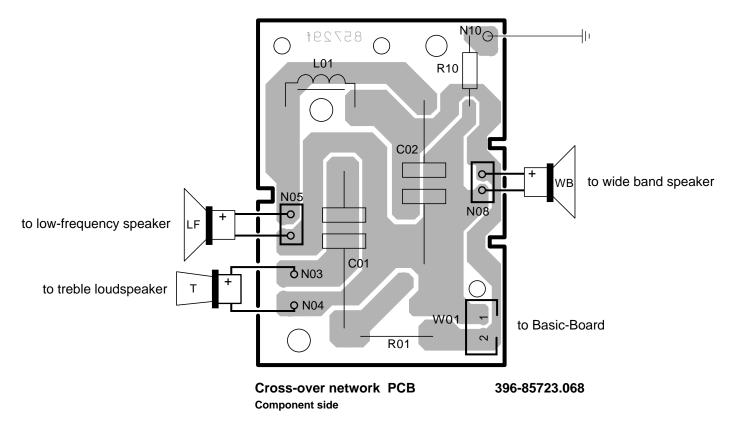


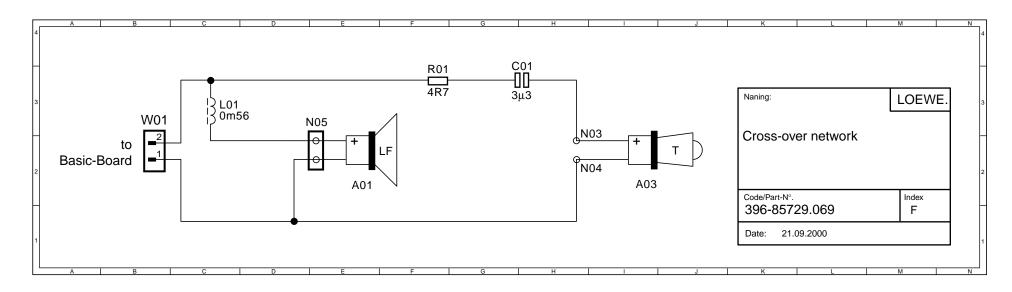
VGA-/IR-Adapter Solder side 396-87717C

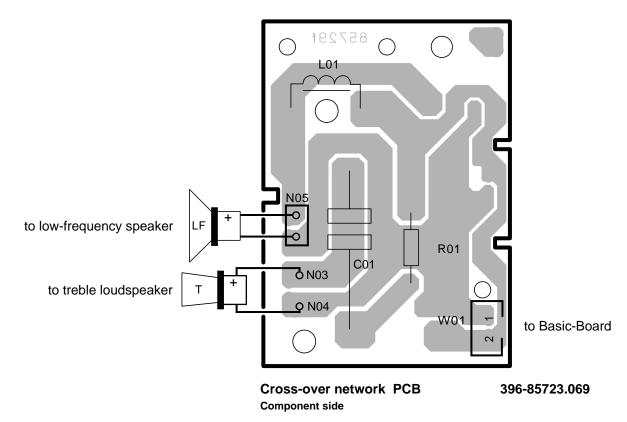


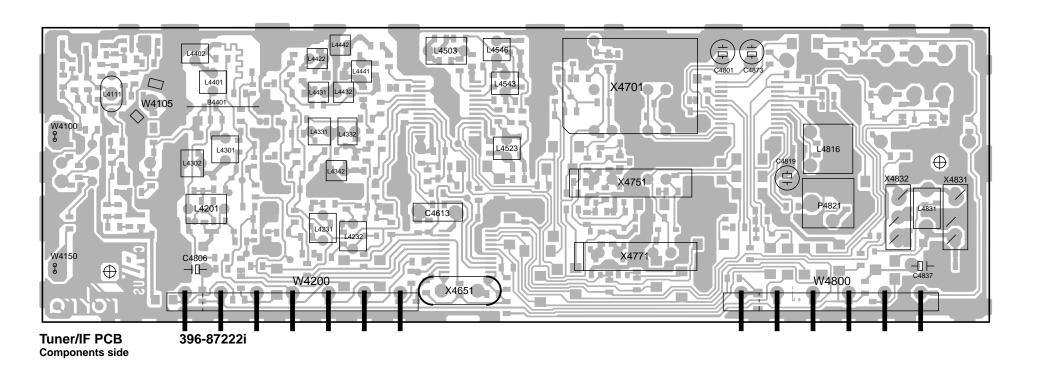


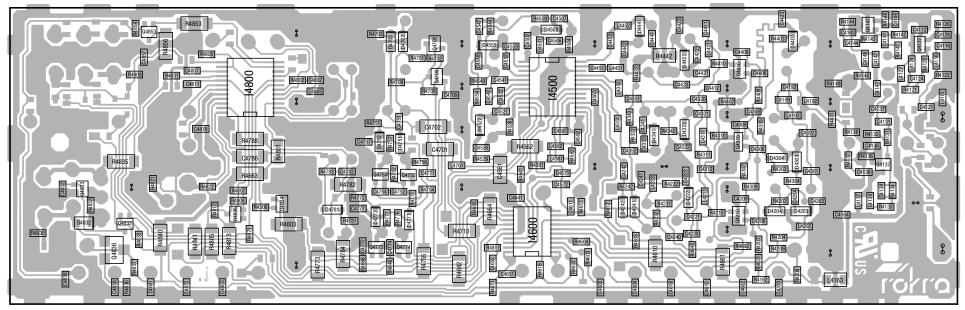






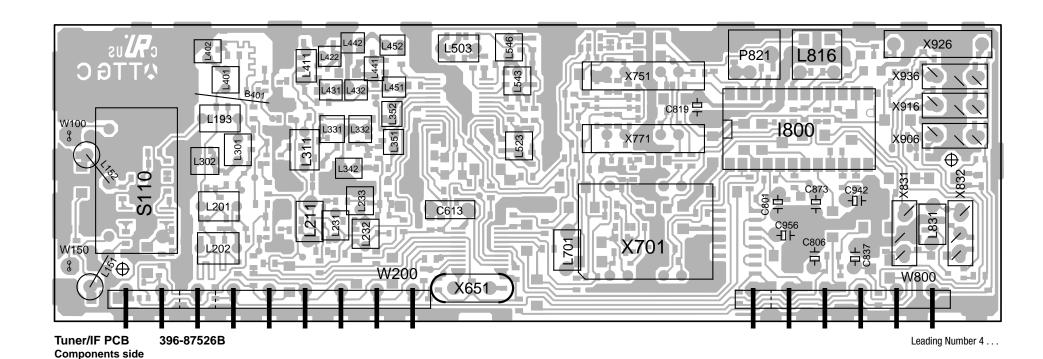


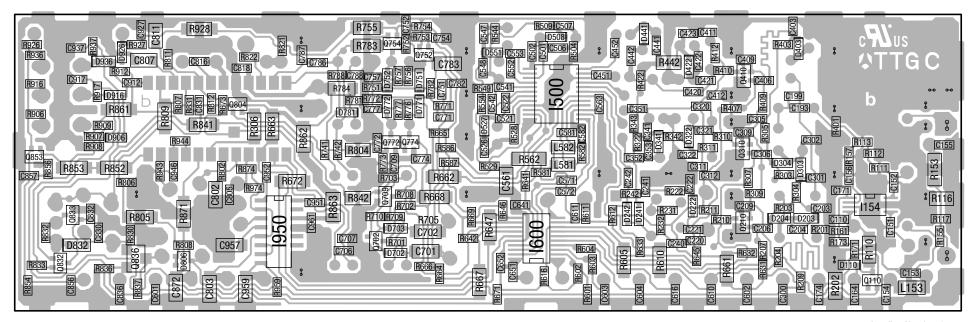




Tuner/IF PCB Solder side

396-87222i

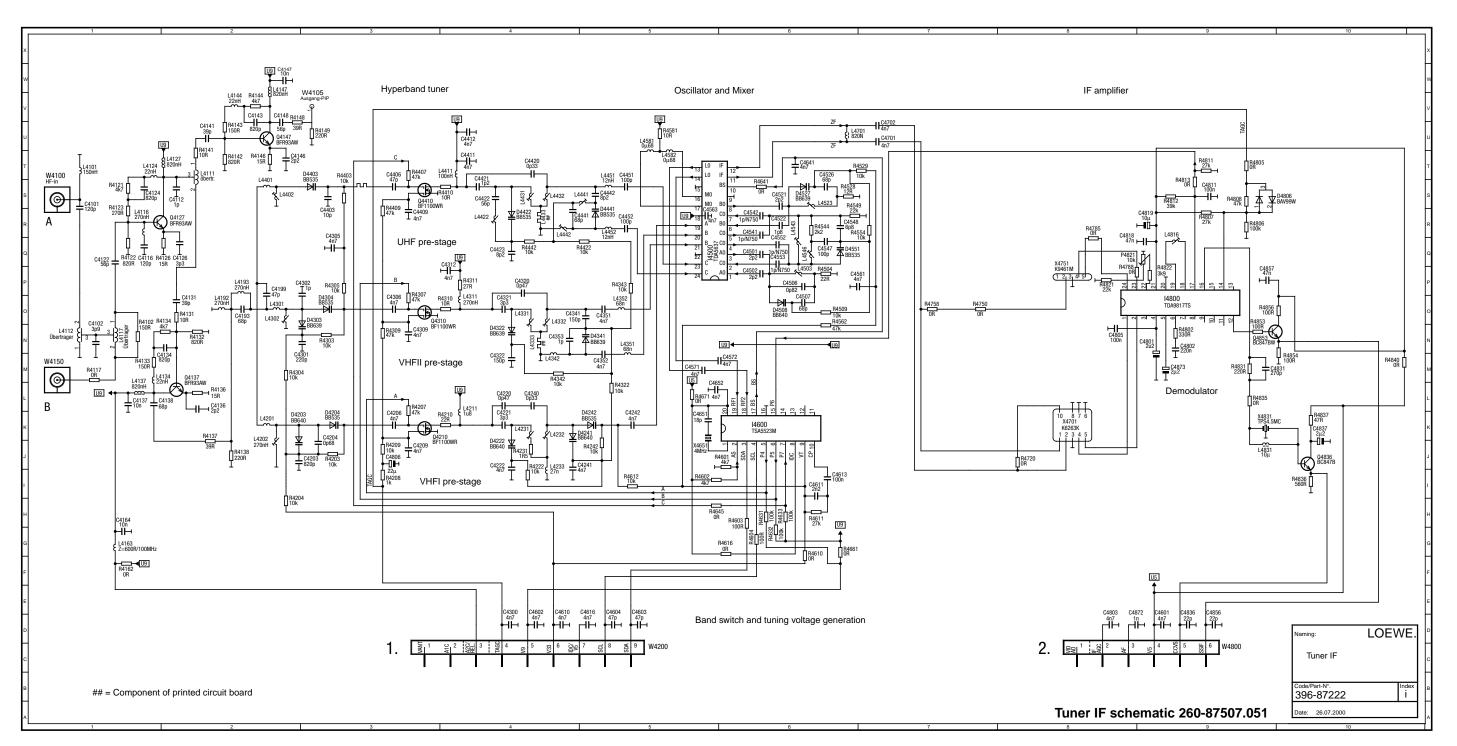


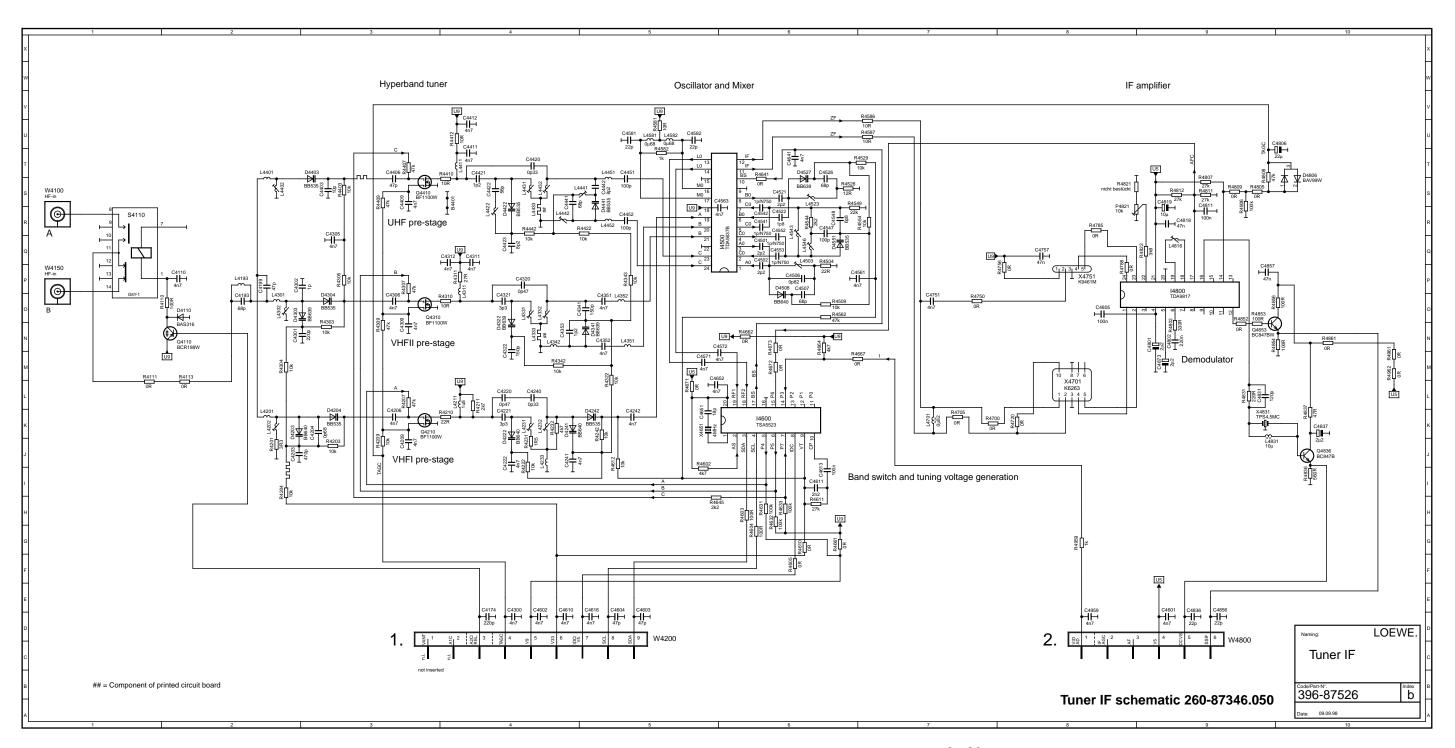


Tuner/IF PCB 396-Solder side

396-87526B

Leading Number 4 . . .





Components chart

0			396-87715.071	396-87715.073	396-87715.074	260-87507.051	260-87346.050	396-87934.050	396-87506.081	396-87777.081	396-87819.081	396-87833.053	396-87833.054	396-87833.055	396-87281.051	396-87862.050	396-87957.050	396-87717.060	:9 345-26377	4:3 345-26133	:9 345-28611	396-85729.068	396-85729.069	263-87000.063
A 2400		Components	Basic Board, 32" 16:9	Basic Board, 33"	Basic Board, 32"	Tuner IF, (87222)	Tuner IF, (87526)	Signal Board	Control Board	Control Board	Control Board	CRT Board	CRT Board	CRT Board	Rotations Panel	Degaussing switch	Adapter PCB	VGA-/IR-Adapter	CRT 32" A 76 ESF 031 X 44 16:9	CRT 33" A 80 EFF 002 X 43 4.	CRT 32" W 76 ERF 041 X 044 (Real Flat) 16:9	Cross-over network	Cross-over network	Remote Handset "Control-USA"
CAL 2323 MB	59414	4.00		•		•	•	•	•			•				•	•	•		•			•	•
ACO 9303 MB	5947	1.00			•	•	•	•			•			•	•	•	•	•			•		•	•
PLA 5303	59470	0.00	•			•	•	•		•			•		•	•	•	•	•			•		•
TV set type	Art.	-N°.											Set c	ompo	nent	s								

CHASSIS REPLACEMENT PARTS LIST

Warning: Before servicing this chassis, read the "X-ray radiation precaution", "Safety precaution" and "Product safety notice" instructions on page 3 of this manual.

CAUTION: The international hazard symbols "A" in the schematic diagram and the parts list designate components which have special characteristics important for safety including X-Ray and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

CAL 2	323		ArtNr. 59414.0	00	CAL 2	2323		ArtNr. 59414.0)0
Pos.Nr. Item N°.	Bestell-Bezeichnung	Description	Bestell-Nr. List Part N°.	Var. Var.	Pos.Nr. <u>Item N</u> °	Bestell-Bezeichnung	Description	Bestell-Nr. List Part N°.	Va Va
	BAUGRUPPEN	UNITS				GEHÄUSETEILE	CABINET MOUNTING		
830	LPL.Frequenzweiche kpl	. Print Circuit Board	396-85729063		111	Halter/RW	. Holder	602-85723101	
970	VGA EBS A2400	. Scaffolding Access	291-87808002		112	Schraube M4,0x10-4.8 f.RW-Befest	Screw	435-24094	
980	Adapter A2400 kpl	. Print Circuit Board	396-87957050			GEHÄUSETEILE	CABINET MOUNTING		
U2400	BAS-B. kpl. A2400 TU-USP99,US/33" .	Print Circuit Board	396-87715073		113	EJOT-PT-Schraube 4,0x14 KB40x14		440-27773	
U2401	SIG-B. kpl. A2400	. Print Circuit Board	396-87934050		200	Distanzstück			
U3371	Bildrohrpl./SVM kpl. A2400 4:3	. Print Circuit Board	396-87833053		230	Halter/Entmag.			
U8211	LPL.Bedienung kpl. A2400	. Print Circuit Board	396-87506081		301	Träger/Bed. Bedr			
	DRUCKSACHEN	OPERATING INSTRUCTION	s		311	Magnet F.Gehäuse			
500	BAN für USA-Geräte -GB		_		G100	33" Gehäuse graphit			L0
570	Garantie u. Antwortkarte USA				G100	33" Gehäuse brillantsilber CAL			T0
580	BedKurzanleitung USA	•			G101	Zwischenstück natur			TO
	GERÄTEBEIPACK				G101	Zwischenstück schwarz			LO
10010		SET SUPPLEMENT	000 40444		G110	Rückwand graphit 33"			LC
	Mikrozelle 1,5V Alkali-Mangan				G110	Rückwand brillantsilber 33"			TO
	Adapter Mini-DIN/Chinch USA				G111	Zwischenstück natur	. Cover	568-85727101	TO
N402	Subwoofer Adapter				G111	Zwischenstück schwarz	. Cover	568-85727102	LO
	Adapter Antenne IEC-F männlich				G310	Klappe/Bed. brillantsilber vorm. USA			TO
U9111	IR-Fernbedienung Control USA arktis		203-07000003		G310	Klappe/Bedien.vorm. graphit USA	Cover Plate	706-85748082	LC
	VERPACKUNGSMATERIAL	PACKING MATERIAL			G350	Ziergitter graphit	. Speaker Grille	708-86276005	LC
102	Schutzstreifen (A)	. Protecktive Packing	253-20816		G350	Ziergitter brillantsilber			TO
600	Verpackungskarton LO-Druck	S .			H0730	Chassishalter rechts	. Holder	602-81482121	
610	Packschalen-Satz 33" ARC/CAL	Cushion-Set	252-86273750		H0731	Chassishalter links	. Holder	602-81481101	
J0701	Schutzstreifen 350 x 190 mm (IR-G.) .	Protecktive Packing	253-84666004		H0732	Gewindelasche M 4 F.RW-Befestigung	Guide Strap	561-81547101	
	VERBINDUNGSLEITUNG	CONNECTING CABLES			H1996	Abdeckung			
N8102	Netzkabel USA m. Drossel 3200lg	Power Cord	170-87684002		V0000	33Z "PH"A80-EFF002X43	. Picture Tube	345-26133	
	KNÖPFE	BUTTONS				SPULEN/LAUTSPRECHER	COILS, SPEAKERS		
303	Knopf II/Netzschalter USA/Tandberg		682-85749012		800	Lautsprecher 4 Ohm 20W TT	. Loudspeaker	272-87846	
	Knopf/Taster schwarz				810	Lautsprecher 4 Ohm 20W HT	· ·		
			002 0000.111		L6001	Entmagn. Spule 32/33" A2400	Coil	297-88037001	

CAL 2	323		ArtNr. 59414.0	0
Pos.Nr.	Bestell-Bezeichnung	Description	Bestell-Nr.	Var.
ltem N°.	· ·	·	List Part N°.	Var.
	ALLGEM.MECHAN.TEILE	COMMON MECHANICAL PA	ARTS	
305	Clamper	Cable Binding	530-21237	
	INTEGR.SCHALTUNGEN	INTEGRATED CIRCUITS		
11891	ICMOS ST24E36F6 A2400 Progr.A70		349-90577700	00
Klapp	e/Bed. vorm. / Cover Plate	premounted Artl	Nr. 85748.081-08	32
	Bestell-Bezeichnung	Description	Bestell-Nr.	Var
ltem N°.		2000p0	List Part N°.	Var
	KNÖPFF	BUTTONS		
30	Knopf III/Netzsch. sw		682-85877002	
30	·		002-03077002	
10	GEHÄUSETEILE	CABINET MOUNTING	706 05740005	082
10 10	Klappe/Bedienung graphit Klappe/Bedienung brillantsilber			082
20	Magnet f. Klappe			001
40	Druckfeder f. Knopf/Netzsch			
50	Infrarot-Fenster für Bedienteil	Window	666-84571101	
60	Lagerbock (Scharnier) f. Klappe	Bearing Bracket	642-82773101	
VGA-I	EBS	,	ArtNr. 87808.00	2
Pos.Nr.	Bestell-Bezeichnung	Description	Bestell-Nr.	Var
ltem N°.	_	·	List Part N°.	Var
	BAUGRUPPEN	UNITS		
10	LPL.VGA-/IR-Adapter A2400 kpl	••	396-87717060	002
	·	COMMON MECHANICAL P		
. •	ALLGEM.MECHAN.TEILE			

ACO	9303	Art	Nr. 59471.0	0
Pos.Nr.	Bestell-Bezeichnung	Description	Bestell-Nr.	Var.
Item N°	•	-	List Part N°.	Var.
	BAUGRUPPEN	UNITS		
830	LPL. Frequenzweiche kpl		396-85729063	
970	VGA EBS A2400			
980	Adapter A2400 kpl.			
U0004	Rotation-Panel Q2300			
U2400	BAS-B. kpl. A2400 TU-USP99,US/32"			
U2401	SIG-B. kpl. A2400			
U3371	Bildrohrpl./SVM kpl. A2400 16:9 (RF)			
U8211	Modul-Bedienung kpl. ACO A2400			
	DRUCKSACHEN	OPERATING INSTRUCTIONS		
500	BAN für USA-Geräte -GB		233-27832002	
570	Garantie- und Antwortkarte USA			
580	BedKurzanleitung USA			
000	GERÄTEBEIPACK	·	. 200 200 10002	
10010		SET SUPPLEMENT	000 40444	
A0640	Mikrozelle 1,5V Alkali-Mangan			
N402	Subwoofer Adapter			
U0002	Adapter Antenne IEC-F männlich IR-Fernbedienung Control USA arktis			
U9111	-		. 203-07000003	
	VERPACKUNGSMATERIAL	PACKING MATERIAL		
102	Schutzstreifen 1600 x 1250 mm			
600	Faltschachtel USA	S .		
610	Packschalen-Satz 32" ACO			
J0701	Schutzstreifen 350 x 190 mm(IR-G.)	Protective Packing	. 253-84666004	
	VERBINDUNGSLEITUNG	CONNECTING CABLES		
N8102	Netzkabel USA m. Drossel 3200lg	Power Cord	. 170-87684002	
	KNÖPFE	BUTTONS		
320	Tastenset für Servicefunktionen schwar	z Button	. 682-87685121	
350	Knopf/Netzschalter schwarz	. Button	. 682-86697002	
	GEHÄUSETEILE	CABINET MOUNTING		
101	EJOT-PT-Schraube 10,0x45 K100x45		440-19149	
103	Führungsschiene			
105	Gehäusefuss farblos			
106	Stütze			
113	EJOT-PT-Schraube 4,0x14 KB40x14			
114	Filzstreifen 0,5x5x340mm			
115	Klebestreifen f. Rückwand			
200	Distanzstück			
230	Halter/Entmagn.			
301	Spaxschraube 4x13			
311	Magnet D 8x4			
	GEHÄUSETEILE	CABINET MOUNTING		
330	Ölsilikondämpfer		. 616-28668	
331	Schraube EJOT-PT 3,0x8 KB30x8			
710	32Z "PH"W76-ERF031X044			
741	Halter			
742	Ring			
. 72	9	J.G.G.T 1 1000	. 500 00000101	

ACO	9303	Art	Nr. 59471.0	0
Pos.Nr.	Bestell-Bezeichnung	Description	Bestell-Nr.	Var.
Item N°	•		List Part N°.	Var.
G100	Gehäuse hochglschwarz	. Cabinet	750-87747702	L00
G100	Gehäuse ST-rotbraun			V00
G100	Gehäuse ST-blau			J00
G100	Gehäuse Stratos-metallic	. Cabinet	750-87747706	H00
G110	Rückwand schwarz			
G111	Zwischenstück schwarz			
G112	Abdeckung Rückwand			
G310	Klappe kpl. HGL-schwarz			L00
G310	Klappe kpl. ST-rotbraun			V00
G310	Klappe kpl. ST-blau			J00
G310	Klappe kpl. Stratos-metallic	. Cover Plate	706-87745106	H00
G311	Scharnier für Klappe	. Hinge	573-87744101	
G350	Ziergitter	Speaker Grille	708-87746102	
H1996	Abdeckung	. Mask	703-87883711	
	SPULEN/LAUTSPRECHER	COILS,SPEAKERS		
800	Lautsprecher 4 Ohm 20W TT	. Loudspeaker	272-87846	
810	Lautsprecher 4 Ohm 20W HT	. Loudspeaker	272-86411	
L6001	Entmag. Spule 32/33" A2400	. Coil	297-88037001	
L6002	Spule Rotation			
	ALLGEM.MECHAN.TEILE	COMMON MECHANICAL PARTS	3	
305	Clamper			
306	Kabelhalter auf Kühlblech NF	. Cable Binding	530-20935	
H1995	EJOT-PT-Schraube 4,0x14 KB40x14	. Screw	440-27773	
	INTEGR.SCHALTUNGEN	INTEGRATED CIRCUITS		
l1891	ICMOS ST24E36F6 A2400 Progr.A800.	. Integrated Circuit	349-90577800	00
VGA-	EBS	Art	Nr. 87808.00	2
Pos.Nr.	Bestell-Bezeichnung	Description	Bestell-Nr.	Var.
Item N°	U	P. C.	List Part N°.	Var.
				7411
	BAUGRUPPEN	UNITS		
10	LPL.VGA-/IR-Adapter A2400 kpl			002
	ALLGEM.MECHAN.TEILE	COMMON MECHANICAL PARTS		
30	Bolzen 4-40UNC KFS-4S-B1W	. Bolt	579-28642 8780	8002

PLA	5303		ArtNr. 59470.0	0
Pos.Nr.	. Bestell-Bezeichnung	Description	Bestell-Nr.	Var.
Item N°	•		List Part N°.	Var.
	BAUGRUPPEN	UNITS		
970	VGA EBS A2400	. Scaffolding Access	291-87808002	
980	Adapter A2400 kpl	Print Circuit Board	396-87957050	
G310	Bedieneinheit kpl. schwarz USA	. Control Unit	810-87076084	L00
G310	Bedieneinheit kpl. arktis USA	. Control Unit	810-87076085	U00
U0003	Frequenzweiche-Platte	. Print Circuit Board	396-85729062	
U0004				
U2400				
U2401	Sig-B. kpl. A2400	. Print Circuit Board	396-87934050	
U3371	Bildrohrpl./SVM kpl. A2400 16:9	. Print Circuit Board	396-87833054	
	DRUCKSACHEN	OPERATING INSTRUCTION	S	
500	BAN für USA-Geräte -GB	Operating Instruction	233-27832002	
570	Garantie- und Antwortkarte USA	. Guaranty Card	224-28352	
580	BedKurzanleitung USA			
	GERÄTEBEIPACK	SET SUPPLEMENT		
502	Adapter-Winkel System f ST-Buchse	Socket	323-28805	
A0640	•			
N402	Subwoofer Adapter			
U0002	Adapter Antenne IEC-F männlich			
U9111	IR-Fernbedienung Control USA arktis			
	VERPACKUNGSMATERIAL	PACKING MATERIAL		
103	Schutzstreifen (A)	Protective Packing	253-20816	
600	Verpackungskarton PLA			
610	Packschalen-Satz 32" PLA			
J0701	Schutzstreifen 350 x 190 mm(IR-G.)			
	GEHÄUSETEILE	CABINET MOUNTING		
102	Filzzuschnitt 30x5x1 für RW		414-27413	
111	Halter/Rückwand	•		
112	EJOT-PT-Schraube SW KB40x20 f. RW			
113	EJOT-PT-Schraube 4,0x14 KB40x14			
200	Distanzstück			
201	EJOT-PT-Schraube 10,0x45 K100x45	. Screw	440-19149	
230	Halter/Entmag	. Holder	602-87243001	
709	Konvergenz-Minipol	. Deflection Unit	278-26996	
710	32Z "PH"W76-ESF031X44			
741	Halter Rotation Panel	. Holder	602-85997131	
821	U-Klammer für Lautsprecher	. Fixing Set	731-25465	
	GEHÄUSETEILE	CABINET MOUNTING		
G100	GEHAUSETEILE	CADINET MICONTING		
	FFS-Gehäuse schwarz 32"		750-87074702	L00
G100		. Cabinet		L00 U00
G100 G101	FFS-Gehäuse schwarz 32"	. Cabinet	750-87074703	U00
G101	FFS-Gehäuse schwarz 32"FFS-Gehäuse arktis 32"	. Cabinet	750-87074703 568-85727101	U00
G101 G101	FFS-Gehäuse schwarz 32" FFS-Gehäuse arktis 32" Zwischenstück natur Zwischenstück schwarz Rückwand schwarz USA 32"	. Cabinet	750-87074703 568-85727101 568-85727102 775-87075712	U00 U00
	FFS-Gehäuse schwarz 32" FFS-Gehäuse arktis 32" Zwischenstück natur Zwischenstück schwarz	. Cabinet	750-87074703 568-85727101 568-85727102 775-87075712	U00 U00 L00 L00
G101 G101 G110	FFS-Gehäuse schwarz 32" FFS-Gehäuse arktis 32" Zwischenstück natur Zwischenstück schwarz Rückwand schwarz USA 32"	Cabinet Cabinet Cover Cover Backcover Backcover Cover Plate		U00 U00 L00

A 5	303	A	rtNr. 59470.0	0	Basic	Board	ArtNr. 8	7715.071/073
s.Nr.	Bestell-Bezeichnung	Description	Bestell-Nr.	Var.	Pos.Nr.	Bestell-Bezeichnung	Description	Bestell-Nr.
em N°.	g		List Part N°.	Var.	Item N°	<u> </u>		List Part N
350	Ziergitter schwarz	Speaker Grille	708-87077012	L00	L538	Lin-Regler 5,4UH	Deflection Unit	278-27544
	Ziergitter arktis			U00	L543	Dr. 572 05 018 00 Vogt		
	Abdeckung				L553	Dr. 50U DR270/5 Kaschke	Choke	298-22381
	SPULEN/LAUTSPRECHER	COILS,SPEAKERS			T528	Treiberspule Vogt 527.01.035.00		
00		•	070 00074			Zeilentrafo Q2300		
	Lautsprecher 8 Ohm 11W					Zeilentrafo Q23/41/24/4140		
	Lautsprecher 8 Ohm 16 W	•				Zeilentrafo		
	Lautsprecher 8 Ohm Hochton				T540	Trafo AT 4043/67A		
	Entmagn. Spule 32/33" A2400				T540	Trafo AT 4043/67A	Power Transformer	490-21351
002	Spule Rotation				T612	Dr. 2x 10M 3,0A RK28 Plasma		
	ALLGEM.MECHAN.TEILE	COMMON MECHANICAL PAR	TS		T639△	Trafo Wandler A2400		
	Clamper		530-21237			Trafo Wandler A2400 33"		
TEGR	.SCHALTUNGEN	. INTEGRATED CIRCUITS				Trafo Wandler A2400		
91	ICMOS ST24E36F6 2400 Progr.A800	Integrated Circuit	349-90577800	00		ALLGEM.MECHAN.TEILE	COMMON MECHANICAL PA	
					20	Aufsteckkühlkörper	Screening	509-27369
					30	Linsenschraube AM 3 X10 Bruen		
					H474	Montageclip		
GA-E	BS	Δrt	Nr. 87808.00	2	H484	Montageclip		
					H509	Montageclip		
	Bestell-Bezeichnung	Description	Bestell-Nr.	Var.	H534	Montageclip		
m N°.			List Part N°.	Var.	H539	Montageclip		
	BAUGRUPPEN	UNITS			H560	Montageclip	Spring	739-875290
0	LPL.VGA-/IR-Adapter A2400 kpl	Print Circuit Board	396-87717060	002	H561	Montageclip		
	· · ·				H562	Glimmerscheibe 16x21		
	ALLGEM.MECHAN.TEILE	COMMON MECHANICAL PAR	-	00000	H586	Montageclip	<u> </u>	
0	Bolzen 4-40UNC KFS-4S-B1W	. Bolt	579-28642 878	08002		ALLGEM.MECHAN.TEILE	COMMON MECHANICAL PA	
					H587	Glimmerscheibe 16x21		-
					H611	Sicherungshalter für SI 5x20		
asic	Board	ArtNr. 877	15.071/073/07	' 4	H624	Montageclip		
os Nr	Bestell-Bezeichnung	Description	Bestell-Nr.	Var.	H625	Glimmerscheibe 16x21	. •	
m N°.	-	Description	List Part N°.	Var.	H652	Montageclip	•	
. III IN			LIST FAIT IN .	vai.	H663	Montageolip		
	BAUGRUPPEN	UNITS			H671	Montageclip		
)	Dyn. Focusblock (Focus/UG2)	. Scaffolding Access	291-28956	071	H674	Montageclip		
	Dyn. Focusblock (Focus/UG2)			074	11074	INTEGR.SCHALTUNGEN	INTEGRATED CIRCUITS	100 010200
	LPL. Degaussing Modul kpl				10			240 24700\
	Dyn. Focusblock (Focus/UG2)			071	10	IC L 7808 ACV		
100	Tuner-ZF (USP)			073	10 10	IC L 78S09CV geschnitten	· ·	
202	Tuner-ZF USP99				1	IC L78 S 09 CV		
:03	Tuner-ZF US	. Tuner	260-87346050		1474	IC TDA 7296		
	SPULEN	COILS			1484	IC TDA 7296	•	
02	Dr. 47U K SMCC Fastron		298-16925		1561	IC TDA8177		
	Dr. 4330 030 38100 VAL				1569	IC TL 431ACLP		
	Dr. 150U K				l611.△		•	
	Dr. 200U				1663	IC L 7808ACV vormontiert	_	
	Lin-Regler 4,6UH			071		Opto-Koppler DIP4 80V 50/80 mA		
	Lin-Regler			074	1670	IC TL 431ACLP		
500	Liii Nogioi	. Donotion one	210 20101	074	1674	IC TL 431ACLP	Integrated Circuit	349-198170

Basic	Board	ArtNr. 877	15.071/073/07	' 4	Basic	Board	1	ArtNr. 87715.071/073/0	74
Pos.Nr.	Bestell-Bezeichnung	Description	Bestell-Nr.	Var.	Pos.Nr.	Bestell-Bezeichnung	Description	Bestell-Nr.	Var.
Item N°	•		List Part N°.	Var.	Item N°.	•		List Part N°.	Var.
1676	IC TL 431ACLP	Integrated Circuit	349-19817020		D549	ZD 30V0 2%	Diode		
l691	IC L 78S09CV vormontiert		349-24013050	073		1,0A 400V DO41 Fast-GP			
1691	IC L 78S09CV vormontiert	Integrated Circuit	349-24013051			1,0A 400V DO41 Fast-GP			
		TRANSISTORS			D561	BA 157			
10	Powmos TO220FP NCH 600V 8A		346-22305			ZD 30V0 2%			
10	TO220FP PNP 80V 3A 24W					BA 157			
10	2SC5302 NPN 1500V 10A 50W				D590	BA 157			
Q508	BD537 TO220A				D613	Gleichrichter FBI5L1M1 900V/5A			
Q511	BF422 TO92				D622	BA 157	Diode	352-44799	
Q526	TO92 NPN 100V 2A 1W				D624	BYT 13-1000 RM15	Diode	352-22712	
Q531	ZTX712 E-Line				D636	BA 157	Diode	352-44799	
Q532	ZTX614 E-Line				D647	3,0A 40V DO27	Diode	352-12657Y10	
Q533	BF422 TO92					BYT08PI-1000			
Q534	2SC4542 vormontiert	Transistor	346-25708Y20	073		BYW 98 RM15			
Q534	2SC5302	Transistor	346-28864Y20		D660	ZD 12V0	Diode	352-44202	
Q562	Powmos TO220FP NCH 50V 10A 30W				D661	BYW 98 RM15			073
Q582	BC556B	Transistor	346-74967020			BYW80-200F vormontiert			
Q585	BC547B TO92	Transistor	346-74983020		D666	SD 103C Schottky-Diode	Diode	352-17741	
Q586	BD537 TO220A	Transistor	346-77764			1 N 4148 DO35			
Q589	BC557B	Transistor	346-74878020			ZD 30V0 2%			
Q593	BC557B					STPS20L40CF geschnitten/gebogen .			
Q624	Powmos TO220FP NCH 600V 8A	Transistor	346-22395	073	D672	ZD 3V9 DO35 5% 0,5W			
Q624	Powmos TO220 600V 8A geschn				D680	ZD ZPY 100			
Q646	Powmos TO220FP NCH 50V 10A 30W	Transistor	346-18528	073	D681	BA 157			
Q646	BUZ 71AF1	Transistor	346-18528Y22		D686	BYW 98 RM15			
Q648	BC547B TO92	Transistor	346-74983020		D687	BYW 98 RM15	Diode	352-25838	
Q661	BC547B TO92	Transistor	346-74983020			POTENTIOMETER	POTENTIOMETE	RS	
Q663	Powmos TO220FP NCH 50V 10A 30W	Transistor	346-18528		P662	1K 6mm Kohleschicht horizont	Potentiometer		
Q674	Powmos TO220FP NCH 50V 10A 30W	Transistor	346-18528		1	RUNGEN			
Q681	BC557B				F611 <u></u>	6000 mA F 125V 5x20	Fuse	380-27938	
Q682	Silpow TO220FP PNP 80V 3A 24W	Transistor	346-28633Y22	073	F656△	1250 mA T 250V 8x8	Fuse		
	DIODEN	DIODES			F661△	4000 mA F 250V 8x8	Fuse		
10	3,0A 40V DO27 Schottky	Diode	352-12657		F672∆	5000 mA T 250V 8x8			
10	10A 200V ISOWATT220AC					KONDENSATOREN	CAPACITORS		
10	10A 200V geschnitten	Diode	352-28625Y20		10	470N J 100V R5		350-28078020	071
D206	ZD 30V0 2%					470N J 100V R5			
D474	1 N 4148 DO35					2N7 J1600V R15			071
D491	1 N 4148 DO35	Diode	352-31818			3N0 J1600V R15			073
D526	1 N 4148 DO35	Diode	352-31818		1	2N2 J1600V R15	•		074
D527	EU 02V0	Diode	352-20289			Elko 47μ M 250V R7,5 18,5x41,5			014
D531	1,0A 400V DO41 Fast-GP	Diode	352-20685		1	470P J 1600V RM15			073
D532	BYW 98 RM15	Diode	352-20535			Elko 2μ2 M 350V R 5,0 10x16	•		0.0
D533	BA 157	Diode	352-44799		1	9N1 H R22,5			071
D539	ESC011M				1	7N5 H2000V R22,5 8,5x17x26,5	•		073
D541		Diode			1	7N5 H2000V R22,5 8,5x17x26,5	•		074
D546		Diode				600N J 250V R22,5 11x21x27			073
D547		Diode				520N J 250V R22,5 11x21			074
D548	1 N 4148 DO35	Diode	352-31818		I		•		

Basic Board	ArtNr. 8	7715.071/073/07	' 4	Basic Board	Art.	-Nr. 87715.071/073/0	74
Pos.Nr. Bestell-Bezeichnung	Description	Bestell-Nr.	Var.	Pos.Nr. Bestell-Bezeichnung	Description	Bestell-Nr.	Var.
Item N°.		List Part N°.	Var.	Item N°.		List Part N°.	Var.
C542 680N J 250V R22,5 9	Capacitor	359-28116	071	R207 6K8 J 0207	Resistor	366-20652	071
	Capacitor	359-26531	073	R207 6K8 J 0207			074
	Capacitor		074	R207 18K G 0207			
	Capacitor		071	R207 8K2 J 0207		367-19613	071
	4x32 Capacitor		073	R207 8K2 J 0207		367-19613	074
C544 680N J 250V R22,5 9			074	R208 5K6 J 0207			071
	Capacitor		071	R208 5K6 J 0207			074
	Capacitor		071	R209 5K6 J 0207			071
	Capacitor		074	R209 5K6 J 0207			074
	Capacitor			R466 470R J 0617 3,00W R20		367-20648	
	,2 Capacitor			R468 470R J 0617 3,00W R20		367-20648	
	x22 360-8 Electrolyt Capacitor			R479 220R J 0207		366-15679	
·	x22 360-8 Electrolyt Capacitor			R489 220R J 0207			
•			071	R491∆ 3R3 K SI 0207 0,33W		366-11790	
	Capacitor		074	R511 150K F 0204			
	Capacitor		07.1	R512 10K F 0204		367-20347	
	2 Capacitor			R516 22R J 0207			
	2 Capacitor				Resistor		
C613A 220N M 275VW R15 5 x2	•			R518 10R J 0207		366-77101	
				R521△ 3R3 K SI 0207 0.33W			
	25x50 Electrolyt Capacitor			R521 A 3R3 J SI 0207 0,50W			073
•	25x50 Electrolyt Capacitor			R524 4K7 J 0207		366-40343	075
	2 Capacitor			R525 4K7 J 0207		366-40343	
C621 470N J 100V R5	•			R527 4K7 J 0207			
	ppylen Capacitor			R528 4K7 J 0207		366-40343	
				R529 4K7 J 0207			
C639 A 2N2 M 400VW	•		073	R530 4K7 J 0207			
C639A 2N2 M 400VW	•		013	R531 A 3R3 J SI 0207 0,50W		366-27701	
	x18 Capacitor			R532 0R68 K 4,00W R15			
	18,5x41,5 Electrolyt Capacitor			R533 12R F 0207		367-21330	
•				R534 A 3R3 J SI 0207 0.50W		366-27701	
	•	337-21103020		R535 100K J 0207		366-16330	
WIDERSTÄNDE	RESISTORS			R538 100K J 0207		366-16330	
	Resistor			R539 100K J 0207		366-16330	
	Resistor		074	R540\triangle 47R J SI 0411 0,75W			
10 22K G 0204			071	R541\(\triangle \) 3R3 J SI 0207 0,50W			
10 1K8 G 0204	Resistor	367-20334		R542\(\text{\Delta}\) 1K2 F 0204			073
*	Resistor		071	R542 1K8 G 0204			073
B590 1R K SI0207				R543 1K5 J 0414 1W R15		367-20657	
	Resistor	366-20649		R545 A 3R3 J SI 0207 0,50W			071
B674 1R J 0207	Resistor	366-20649		R545 A 3R3 J SI 0207 0,50W			071
B693 8K2 J 0207	Resistor	367-19613	071				074
	Resistor		074	R546 220R J 0207 R547 A 3R3 J SI 0207 0,50W			
	Resistor		071	R548 220R J 0207 0,50W			073
	Resistor		074	R549 150K G 0207			013
	Resistor						
	Resistor		071	R550\(2 K2 G 0207			
R206 8K2 J 0207	Resistor	367-19613	074	R551 150K G 0207			
				R553 220R J 0207	Nesisiui	300-13079	

Basic	Board	ArtN	r. 87715.071/073/07	74	Basic Board	ArtNr	. 87715.071/073/07	74
Pos.Nr	Bestell-Bezeichnung	Description	Bestell-Nr.	Var.	Pos.Nr. Bestell-Bezeichnung	Description	Bestell-Nr.	Var
Item N			List Part N°.	Var.	Item N°.		List Part N°.	Var
		Danistan			R668 Resistor	366-16330	zioti uititi	
R555	1K8 G 0204					Resistor	366-77754	
	1R5 J SI R17,5 0,5 W				R682 33R J 0207			
	1R5 J SI R17,5 0,5 W				R683 470R J 0207			
R560	10K F 0204				R684 6K8 J 0207			
R561	3K9 F 0204				R685 68R J 3,00W RM20			073
R565	40K2 F 0204				R686△ 0R1 K SI 0207			070
R566	82K G 0207				R687△ 0R1 K SI 0207			
R567	470R J 0207	Resistor	366-20661		R688 1R J 0207			
R569	470R J 0207	Resistor	366-20661					
R574	0R82 K 4,00W R15	Resistor	368-11091	074	R689 1R J 0207			
R574	0R68 K 4,00W R15	Resistor	368-21294	073	R690△ 1R K SI0207			
R574	1R J 2,00W R15	Resistor	368-22719	071		Resistor		
R578	82K G 0207	Resistor	367-10885		R692 100R J 0207	Resistor	366-73257	
R579	40K2 F 0204	Resistor	367-26914					
R583	390K G 0204		367-16791					
R590	10R J 0207							
R591	1R J 0207							
R592	1R J 0207				Tuner/ZF / Tuner/IF		ArtNr. 87507.05	51
R612	0R56 J 10,0W				Pos.Nr. Bestell-Bezeichnung		Bestell-Nr.	Var
R613	0R68 J 7.00W R22.5					.		
R619	DUO-PTC 3R			073	Item N°.	Description	List Part N°.	Var
R621	56K J 0414 1,00W R15			073	VERBINDUNGSLEITUNG	CONNECTING CABLES		
R622	'				50 Antennenkabel 2.4m mit Winkelsted		169-27470001	051
	820K J 0207					ŭ		
R625	680K J 0207				INTEGR.SCHALTUNGEN	INTEGRATED CIRCUITS		
R626	22R J 0207				14500 IC TDA5637 SOT340			051
R628	39K J 3W RM20				14600 IC TSA5523M SOT266	Integrated Circuit	350-27275	051
R629	22R J 0207				I4800 IC TDA9817 SDIP24	Integrated Circuit	349-27337	051
	、82R J 0207				I4800 IC TDA9817 TS-SSOP24	Integrated Circuit	350-28929	051
R633∆	Δ 2K2 J 0207	Resistor	366-81024		DIODEN	DIODES		
R634	680K J 0207	Resistor	367-27264		D4203 BB 640 SOD323		351-26568	051
R639∆	. 10M J 0411	Resistor	367-19664		D4204 BB 535 SOD323			051
R639∆	. 10M J 0411	Resistor	367-27946		D4222 BB 640 SOD323			
R647	100K J 0207	Resistor	366-16330					051
R651	18K G 0207	Resistor	367-11559					051
R652∆	1R K SI0207	Resistor	366-12276		D4242 BB 535 SOD323			051
R653	100R J 0207		366-73257		D4303 BB 639 SOD323			051
R654	100R J 0207					Diode		051
R660	1K8 G 0204				D4322 BB 639 SOD323			051
R660	1K8 G SI 0204 geschnitten			073		Diode		051
	33K F 0204	Resistor		073	D4403 BB 535 SOD323			051
	39K F 0204			073	D4422 BB 535 SOD323	Diode	351-26570	051
	39K F 0204				D4441 BB 535 SOD323			051
	3K6 G 0204			073	D4508 BB 640 SOD323	Diode	351-26568	051
				071	D4527 BB 639 SOD323	Diode	351-26571	051
	3K6 G 0204			073	D4551 BB 535 SOD323			
	3K3 F 0204			074	D4806 BAV 99W SOT323			051
	220K F 0207						351-27469	051
_	56K J 0414 1.00W R15	Resistor			QUARZE/FILTER	QUARTZES		
R663Z	18K F 0204							

	/ZF / Tuner/IF		ArtNr. 87346.05	
	Bestell-Bezeichnung		Bestell-Nr.	Var
Item N°	•	Description	List Part N°.	Var
	SPULEN	COILS		
S4110	HF-Relais G5Y-1-H 5VDC	Relay	387-27950	050
L4193	Spule			050
L4201	Spule	Coil	297-27571001	050
L4202	Spule kpl			050
L4231	Spule	Coil	297-27569001	050
L4232	Spule	Coil	297-27569001	050
L4233	Spule	Coil	297-27561001	050
L4301	Spule	Coil	297-27566001	050
L4302	Spule	Coil	297-27561001	050
L4311	Spule	Coil		050
L4331	Spule			050
L4332	Spule			050
L4342	Spule			050
L4351	Spule			050
L4352	Spule			050
L4401	Spule			050
L4402	Spule			05
L4402 L4411	Spule			05
_ 44 11 _4422	Spule			05
_4431	Spule			050
_4432	Spule			050
_4441	Spule			050
_4442	Spule			050
_4451	Spule			05
_4452	Spule			05
_4503	Spule			05
_4523	Spule			05
_4543	Spule			050
_4546	Spule			050
_4816	Spule	Coil	297-27743	050
	INTEGR. SCHALTUNGEN	INTEGRATED CIRCUITS	3	
4500	IC TDA 5637 BM SMD	Integrated Circuit	350-27278	050
4600	IC TSA 5523 M SMD	Integrated Circuit	350-27275	050
4800	IC TDA 9817 V1			050
	TRANSISTOREN	TRANSISTORS		
Q4110	BCR 198 W SMD		344-27269	050
-,	BF 1100W-R SMD			05
Q4310	BF 1100W-R SMD			05
Q4410	BF 1100W-R SMD			05
Q4836	BC 847 B SMD			050
24853				05
⊶ -000				00
04110	DIODEN BAS316 SOD323	DIODES	351 27052	050
	BB 640 SMD			
04203				05
D4204	BB 535 SMD			05
4222كل	BB 640 SMD	Diode	351-26568	05

Tuner	/ZF / Tuner/IF	ArtNr. 87346.050					
Pos.Nr.	Bestell-Bezeichnung		Bestell-Nr.	Var.			
Item N°.		Description	List Part N°.	Var.			
D4241	BB 640 SMD	Diode	. 351-26568	050			
D4242	BB 535 SMD	Diode	351-26570	050			
D4303	BB 639 SMD	Diode	351-26571	050			
D4304	BB 535 SMD			050			
D4322	BB 639 SMD	Diode	351-26571	050			
D4341	BB 639 SMD	Diode	351-26571	050			
D4403	BB 535 SMD	Diode	351-26570	050			
D4422	BB 535 SMD			050			
D4441	BB 535 SMD	Diode	351-26570	050			
D4508	BB 640 SMD			050			
D4527	BB 639 SMD			050			
D4551	BB 535 SMD			050			
D4806	BAV 99 W SMD	Diode	351-27469	050			
	QUARZE / FILTER	QUARTZES					
80	Label weiß 42x10 bedruckt	Adhesive Label	220-21812050	050			
10	Quarz 4,0 MHz R5	Crystal Oscillator	385-27752	050			
X4651	Quarz 4,0 MHz HC49U3 R5	,		050			
X4701	Filter OFW K 6263 K			050			
X4751	Filter OFW K 9461-M			050			
X4831	Piezo Filter 4,5 MHz	Ceramic Filter	386-27305020	050			
	SPEZIALTEILE	SPECIAL PARTS					
10	Filter OFW K 9461-M	Filter	290-25216	050			
20	Deckel			050			
21	Deckel			050			
46	Abschirmung	9		050			
47	Abschirmung			050			
48	Abschirmung 3 (Tuner US)			050			
P4821	Potentiometer 10K			050			
	Koax-Buchse			050			
	Koax-Buchse			050			
	Kontaktleiste 7-pol. RM 5,08			050			
	Kontaktleiste 7-pol			050			
	Kontaktleiste 6-pol.			050			
W4800	Kontaktleiste 6-pol.	Contact Ledge	326-27320016	050			

ALLGEMMECHAN.TEILE COMMON MECHANICAL PARTS H1851 IC-Fassung 32-pol. Socket 320-22087 050 X1746 Quarz 32,768000 KHz. Crystal Oscillator 385-5 NT68 Quarz 11,768200 MHz PC49U Crystal Oscillator 385-5 NT68 Quarz 11,768200 MHz PC49U Crystal Oscillator 385-5 NT69 SOCKET S	Part N°. Var. 4963 050 4962 050 4721 050 6686 050 4044 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050
Item N°. List Part N°. Var.	Part N°. Var. 4963 050 4962 050 4721 050 6686 050 4044 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050
ALLGEM.MECHAN.TEILE	4962 050 4721 050 6686 050 4044 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050
H1851 IC-Fassung 32-pol. Socket 320-22087 050 X1746 Cuarz 32,768000 kHz Crystal Oscillator 385-2 H1891 IC-Fassung 8-pol. Socket 320-80503 050 X1812 Cuarz 21,768000 kHz Crystal Oscillator 385-2 H1891 IC-Fassung 8-pol. Socket 320-80503 050 X1812 Cuarz 21,768000 kHz Crystal Oscillator 385-2 H1991 IC TEA6422D SO28 Integrated Circuit 350-28732 050 M70ERSTÂNDE RESISTORS H1161 IC TEA64215 SO20L Integrated Circuit 350-28733 050 M70ERSTÂNDE RESISTORS H1162 IC TEA6415 SO20L Integrated Circuit 350-28733 050 R1046-AlorR J SI 0207 0,25W R5 Resistor 366-2 H1891 ICMOS TOABSO1T SO24 Integrated Circuit 350-2873 050 R1116-AlorR J SI 0207 0,25W R5 Resistor 366-2 H1271 ICMOS MSPA3405 PLC-68 Integrated Circuit 350-2818 050 R1127-AlorR J SI 0207 0,25W R5 Resistor 366-2 H1491 ICMOS SAA4955H LOFP44 Integrated Circuit 350-28823 050 R1242-AlorR J SI 0207 0,25W R5 Resistor 366-2 H1492 ICMOS SAA4955H LOFP44 Integrated Circuit 350-28823 050 R1261-AlorR J SI 0207 0,25W R5 Resistor 366-2 H1493 ICMOS SAA4955H LOFP44 Integrated Circuit 350-28823 050 R1261-AlorR J SI 0207 0,25W R5 Resistor 366-2 H1494 ICMOS SAA4955H LOFP44 Integrated Circuit 350-28823 050 R1261-AlorR J SI 0207 0,25W R5 Resistor 366-2 H1495 ICMOS SAA4955H LOFP44 Integrated Circuit 350-28823 050 R1261-AlorR J SI 0207 0,25W R5 Resistor 366-2 H1501 ICMOS SAA4955H LOFP44 Integrated Circuit 350-28823 050 R1261-AlorR J SI 0207 0,25W R5 Resistor 366-2 H1516 ICMOS SAA4955H LOFP44 Integrated Circuit 350-28823 050 R1261-AlorR J SI 0207 0,25W R5 Resistor 366-2 H1516 ICMOS SAA4955H LOFP44 Integrated Circuit 350-28823 050 R1261-AlorR J SI 0207 0,25W R5 Resistor 366-2 H1516 ICMOS SAA4955H LOFP44 Integrated Circuit 350-28823 050 R1261-AlorR J SI 0207 0,25W R5 Resistor 366-2 H1517 ICMOS ROA4992 QFP160 Integrated Circuit	4962 050 4721 050 6686 050 4044 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050
H1891 C-Fassung 8-pol. Socket 320-80503 O50 X1812 Cuarz 11,059200 MHz HC49U Crystal Oscillator 385-1	4721 050 6686 050 4044 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050
NTEGR.SCHALTUNGEN NTEGRATED CIRCUITS 1/15	6686 050 4044 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050
1011 IC TEA642Z	4044 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050
1066 C C C C C C C C C	0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050
1116 C TEA6415 SQ20L	0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050
Integrated Circuit 350-25733 050	0353 050 0353 050 0353 050 0353 050 0353 050 0353 050 0353 050
1118 ICMOS Video-Schalter DMP8 Integrated Circuit 350-28875 050 R1116∆10R J SI 0207 0,25W R5 Resistor 366-2 11281 ICMOS NBP3430G PLCC-68 Integrated Circuit 350-24917 050 R1127∆10R J SI 0207 0,25W R5 Resistor 366-2 11341 IC MC 78L08ACP T092 Integrated Circuit 349-24725020 050 R1181∆10R J SI 0207 0,25W R5 Resistor 366-2 11341 IC MC 78L08ACP T092 Integrated Circuit 349-24725020 050 R1181∆10R J SI 0207 0,25W R5 Resistor 366-2 11346 IC VPC3230 MQFP80 Integrated Circuit 350-28839 050 R1242∆10R J SI 0207 0,25W R5 Resistor 366-2 11349 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 R1282∆10R J SI 0207 0,25W R5 Resistor 366-2 11349 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 R1282∆10R J SI 0207 0,25W R5 Resistor 366-2 11349 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 R1282∆10R J SI 0207 0,25W R5 Resistor 366-2 11349 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 R1282∆10R J SI 0207 0,25W R5 Resistor 366-2 11349 ICMOS SAA4957HL LQFP44 Integrated Circuit 350-28823 050 R1282∆10R J SI 0207 0,25W R5 Resistor 366-2 11349 ICMOS SAA49571HL QFP44 Integrated Circuit 350-28823 050 R1282∆10R J SI 0207 0,25W R5 Resistor 366-2 11349 ICMOS SAA49571HL QFP44 Integrated Circuit 350-28823 050 D1002 Diode ZD 5V6 SOD08 ZMM C ITT Diode 351-1 11531 ICMOS SAA4977106 QFP80 Integrated Circuit 350-28710 050 D1002 Diode ZD 5V6 SOD08 ZMM C ITT Diode 351-1 11531 ICMOS SAA4977106 QFP80 Integrated Circuit 350-28730 050 D1242 Diode 0,2A 75V SOD80 LL4148 Diode 351-1 11556 ICMOS 74LV00 D SO14 Integrated Circuit 350-28730 050 D1689 Diode 0,2A 75V SOD80 LL4148 Diode 351-1 11560 ICMOS 74LV00 D SO14 Integrated Circuit 350-28730 050 D1689 Diode 0,2A 75V SOD80 LL4148 Diode 351-1 11561 ICMOS 74LV00 D SO14 Integrated Circuit 350-28730 0	0353 050 0353 050 0353 050 0353 050 0353 050 0353 050
11281 ICMOS TDA8501T SO224 Integrated Circuit 350-24917 050 R1127△10R J SI 0207 0,25W R5. Resistor 366-2 11321 ICMOS MSP34300 PLCC-68 Integrated Circuit 350-27818 050 R1156△10R J SI 0207 0,25W R5. Resistor 366-2 11466 IC VPC3230 MQFP80 Integrated Circuit 350-28398 050 R1242△10R J SI 0207 0,25W R5. Resistor 366-2 11491 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 R1261△10R J SI 0207 0,25W R5. Resistor 366-2 11492 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 R1261△10R J SI 0207 0,25W R5. Resistor 366-2 11492 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 R1261△10R J SI 0207 0,25W R5. Resistor 366-2 11492 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 R1261△10R J SI 0207 0,25W R5. Resistor 366-2 11492 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 R1261△10R J SI 0207 0,25W R5. Resistor 366-2 11492 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 R1261△10R J SI 0207 0,25W R5. Resistor 366-2 11492 ICMOS SAA4955HL QAFP44 Integrated Circuit 350-28823 050 IDMO2 IDMO2 DAVE SAA4955HL QAFP44 Integrated Circuit 350-28572 050 IDMO2 DAVE SAA4955HL QAFP44 Integrated Circuit 350-28572 050 IDMO2 DIOde ZD 5V6 SOD80 ZMM C ITT Diode 351-1 IDMO4 DAVE SAA4977/106 QFP80 Integrated Circuit 350-28730 050 IDMO2 DAVE SAA4977/106 QFP80 Integrated Circuit 349-15209020 050 IDMO2 DAVE SAA4977/106 QFP80 Integrated Circuit 350-28730 050 IDMO2 DAVE SAA4974 IDMO2 DAVE SAA497	0353 050 0353 050 0353 050 0353 050 0353 050
1321 ICMOS MSP3430G PLC-68 Integrated Circuit 349-24725020 050 R1156≜10R J SI 0207 0,25W R5 Resistor 366-2 1441 IC MC78L08ACP TO92 Integrated Circuit 349-24725020 050 R1242≜10R J SI 0207 0,25W R5 Resistor 366-2 1491 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 R1242≜10R J SI 0207 0,25W R5 Resistor 366-2 1492 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 R1242≜10R J SI 0207 0,25W R5 Resistor 366-2 R1240 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 R1241≜10R J SI 0207 0,25W R5 Resistor 366-2 R1261≜10R J SI 0207 0,25W R5 R1261≜10R J SI 0207 0,25W R5 R1261≜10R J SI 0207 0,25W R5 R1261≜10R J SI 0207 0,2	0353 050 0353 050 0353 050
1341 IC MC 78L08ACP TO92	0353 050 0353 050
11466 IC VPC3230 MQFP80	0353 050
1491 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 1492 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 1496 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 1501 ICMOS SAA4955HL LQFP44 Integrated Circuit 350-28823 050 1501 ICMOS SAA4992 QFP160 Integrated Circuit 350-28572 050 0501 Integrated Circuit 350-28573 050 0501 Integrated Circuit 350-28730 050 0501 Integrated Circuit 350-28730 050 0501 Integrated Circuit 350-28730 050 0501 Integrated Circuit 350-285730 050 0501	
Integrated Circuit 350-28823 050 1496 Integrated Circuit 350-28823 050 Integrated Circuit 350-28812 050 Integrated Circuit 350-28812 050 Integrated Circuit 350-287212 050 Integrated Circuit 349-15209020 050 Integrated Circuit 349-15209020 050 Integrated Circuit 350-28730 050 In	
Integrated Circuit 350-28873 050 0	0353 050
1501 ICMOS SAA4992 QFP160 Integrated Circuit 350-28572 050 D1002 Diode ZD 5V6 SOD80 ZMM C ITT Diode 351-1 1516 ICMOS 74HCT 08 SO14 Integrated Circuit 350-28912 050 D1003 Diode ZD 5V6 SOD80 ZMM C ITT Diode 351-1 D104	
1516 ICMOS 74HCT 08 SO14 Integrated Circuit 350-15441 050 D1003 D1004 ZD 5V6 SOD80 ZMM C ITT D10de 351-1 D104 D10	6758 050
1531 ICMOS SAA4977/106 QFP80 Integrated Circuit 350-28912 050 D104	6758 050
11541 IC 3.3V 0,8A SO08 Volt. Regulat. Integrated Circuit 350-27212 050 11556 IC 78 L 05 ACP Integrated Circuit 349-15209020 050 11558 ICMOS 74LV00 D SO14 Integrated Circuit 350-28730 050 11560 ICMOS 74LV00 D SO14 Integrated Circuit 350-28730 050 11561 ICMOS 74LV00 D SO14 Integrated Circuit 350-28730 050 11571 ICMOS HCT4046 SO16 Integrated Circuit 350-28730 050 11607 ICMOS 74HCT123 SO16 Integrated Circuit 350-28760 050 11691 IC SDA9361-2 P-MQFP44 Integrated Circuit 350-28761 050 11740 ICMOS Z 86130 SOIC18 Integrated Circuit 350-28730 050 11781 ICMOS SABC161RI-LF TQFP1 Integrated Circuit 350-27354 050 11732 Diode 0,2A 75V SOD80 LL4148 Diode 351-1 11740 ICMOS SABC161RI-LF TQFP1 Integrated Circuit 350-27354 050 1068 0,2A 75V SOD80 LL4148 Diode 351-1 11740 ICMOS SABC161RI-LF TQFP1 Integrated Circuit 350-27354 050 1068 0,2A 75V SOD80 LL4148 Diode 351-1 11740 ICMOS SABC161RI-LF TQFP1 Integrated Circuit 350-27354 050 1068 0,2A 75V SOD80 LL4148 Diode 351-1 11740 ICMOS SABC161RI-LF TQFP1 Integrated Circuit 350-27354 050 1068 0,2A 75V SOD80 LL4148 Diode 351-1 10	6758 050
1541 IC 3.3V 0,8A SO08 Volt. Regulat. Integrated Circuit 350-27212 050 11556 IC 78 L 05 ACP Integrated Circuit 349-15209020 050 11558 ICMOS 74LV00 D SO14 Integrated Circuit 350-28730 050 11560 ICMOS 74LV00 D SO14 Integrated Circuit 350-28730 050 11561 ICMOS 74LV00 D SO14 Integrated Circuit 350-28730 050 11571 ICMOS HCT4046 SO16 Integrated Circuit 350-28730 050 11607 ICMOS 74HCT123 SO16 Integrated Circuit 350-24220 050 11641 IC TDA4780-V4 Integrated Circuit 349-27676 050 11691 IC SDA9361-2 P-MQFP44 Integrated Circuit 350-28761 050 11740 ICMOS Z 86130 SOIC18 Integrated Circuit 350-28372 050 11781 ICMOS Z 86129 SOIC18 Integrated Circuit 350-28371 050 17731 Diode ZD 12V0 SOD80 LL4148 Diode 351-1 17740 ICMOS SABC161RI-LF TQFP1 Integrated Circuit 350-27354 050 17732 Diode 0,2A 75V SOD80 LL4148 Diode 351-1 17740 ICMOS SABC161RI-LF TQFP1 Integrated Circuit 350-28371 050 17732 Diode 0,2A 75V SOD80 LL4148 Diode 351-1 17740 ICMOS SABC161RI-LF TQFP1 Integrated Circuit 350-27354 050 17732 Diode 0,2A 75V SOD80 LL4148 Diode 351-1 17740 ICMOS SABC161RI-LF TQFP1 Integrated Circuit 350-27354 050 17732 Diode 0,2A 75V SOD80 LL4148 Diode 351-1 17740 ICMOS SABC161RI-LF TQFP1 Integrated Circuit 350-27354 050 17732 Diode 0,2A 75V SOD80 LL4148 Diode 351-1 17740 ICMOS SABC161RI-LF TQFP1 Integrated Circuit 350-27354 050 17732 Diode 0,2A 75V SOD80 LL4148 Diode 351-1 17740 Diode 0,2A 75V SO	5015 050
1556 C 78 L 05 ACP	
Integrated Circuit 350-28730 050 1561 ICMOS 74LV00 D SO14 Integrated Circuit 350-28730 050 1571 ICMOS HCT4046 SO16 Integrated Circuit 350-28730 050 1607 ICMOS 74HCT123 SO16 Integrated Circuit 350-15562 050 1641 IC TDA4780-V4 Integrated Circuit 350-28761 050 1691 IC SDA9361-2 P-MQFP44 Integrated Circuit 350-28761 050 1740 ICMOS Z 86130 SOIC18 Integrated Circuit 350-28372 050 050 1741 ICMOS Z 86129 SOIC18 Integrated Circuit 350-28371 050 05	5015 050
Integrated Circuit 350-28730 050 1571 ICMOS HCT4046 SO16 Integrated Circuit 350-28730 050 1650 Diode 0,2A 75V SOD80 LL4148 Diode 351-1 Dide 0,2A 75V SOD80 LL4148 Diode Dide 0,2A 75V SOD80 LL4148 Dide 0,2A 75V SOD80	5015 050
1561 CMOS 74LV00 D SO14 Integrated Circuit 350-28/30 050 11571 ICMOS HCT4046 SO16 Integrated Circuit 350-24220 050 11607 ICMOS 74HCT123 SO16 Integrated Circuit 350-15562 050 11607 ICMOS 74HCT123 SO16 Integrated Circuit 349-27676 050 11609 Diode ZD 20V0 SOD80 ZMM C ITT Diode 351-1 11609 ZMM C ZD 20V0 SOD80 ZMM C ITT Diode 351-1 11609 ZMM C ZD 20V0 SOD80 ZMM	5015 050
1571 ICMOS HCT4046 SO16 Integrated Circuit 350-24220 050 11607 ICMOS 74HCT123 SO16 Integrated Circuit 350-15562 050 11641 IC TDA4780-V4 Integrated Circuit 349-27676 050 11691 IC SDA9361-2 P-MQFP44 Integrated Circuit 350-28761 050 11740 ICMOS Z 86130 SOIC18 Integrated Circuit 350-28372 050 11781 ICMOS Z 86129 SOIC18 Integrated Circuit 350-28371 050 11801 ICMOS S ABC161RI-LF TQFP1 Integrated Circuit 350-27354 050 11732 Diode ZD 12V0 SOD80 LL4148 Diode 351-1 11801 ICMOS ABC161RI-LF TQFP1 Integrated Circuit 350-27354 050 11732 Diode ZD 12V0 SOD80 LL4148 Diode 351-1 11732 Diode ZD 12V0 SOD80 DIODE SOD80 DIODE SOD80 DIODE DIODE DIODE DIODE DIODE DI	
1607 ICMOS 74HC1123 SO16 Integrated Circuit 350-15562 050 05	
11691 IC SDA9361-2 P-MQFP44 Integrated Circuit 350-28761 050 11740 ICMOS Z 86130 SOIC18 Integrated Circuit 350-28372 050 11781 ICMOS Z 86129 SOIC18 Integrated Circuit 350-28371 050 11801 ICMOS SABC161RI-LF TQFP1 Integrated Circuit 350-27354 050 11801 ICMOS A320/ GAMA COORD Sant ICMOS Coord C	
1691 IC SDA9361-2 P-MQFP44 Integrated Circuit 350-28761 050 050	5015 050
11740 ICMOS Z 86130 SOIC18 Integrated Circuit 350-28372 050 D1719 Diode 0,2A 75V SOD80 LL4148 Diode 351-1 11781 ICMOS Z 86129 SOIC18 Integrated Circuit 350-28371 050 D1719 Diode 0,2A 75V SOD80 LL4148 Diode 351-1 11801 ICMOS SABC161RI-LF TQFP1 Integrated Circuit 350-27354 050 D1731 Diode ZD 12V0 SOD80 0,5W Diode 351-1 11801 ICMOS A30V SOMM COMM COMM COMM COMM COMM COMM COMM	
11781 ICMOS Z 86129 SOIC18	5015 050
11801 ICMOS SABC161RI-LF TQFP1 Integrated Circuit	
	5015 050
11845 ICMOS 4,33V 20MA SO08 Reset-IC Integrated Circuit	
11901 ICMOS VPC3233 QFP80 Integrated Circuit	
11923 ICMOS SAA4955HL LQFP44 Integrated Circuit	
I1941 ICMOS 5275-3P-A PLCC68 f. USA Integrated Circuit	
BUCHSEN/FASSUNGEN SOCKETS D1796 Diode ZD 20V0 SOD80 ZMM C ITT Diode	
W1249 Buchse vertical Mini DIN 8-polig Socket	5015 050
D4700 D'-1- 0.04 75\/ 0.0000 11 4440 D'-1-	
DIODEN DIODES DIODES DIODES 251.1	
D1391 U,ZA 73V SOD00 LL4146	
D1090 DD 009 SOD025	
D1940 ZIVIIVI COVO SODDO SIVID	
Q1022 Transistor BC857BW SOT323 Transistor	
QUARZE/FILTER QUARTZES Q1025 Transistor BC847BW SOT323Transistor	
X1282 Quarz 3,579545 MHz HC49U Crystal Oscillator	
X1327 Quarz 18,432000 MHz HC49U Crystal Oscillator	
X1483 Quarz 20,250000 MHz HC49U Crystal Oscillator	

Signal Board		ArtNr. 87934.0	50	Signal Board		ArtNr. 87934.05	50
Pos.Nr. Bestell-Bezeichnung	Description	Bestell-Nr.	Var.	Pos.Nr. Bestell-Bezeichnung	Description	Bestell-Nr.	Var.
Item N°.	•	List Part N°.	Var.	Item N°.	•	List Part N°.	Var.
Q1036 Transistor BC847BW SOT323	Transistor	344-27272	050	Q1573 Transistor BC857BW SOT323	Transistor	344-28404	050
Q1038 Transistor BC847BW SOT323	Transistor	344-27272	050	Q1591 Transistor BF550 SOT23	. Transistor	344-23563	050
Q1046 Transistor BC807-25 SOT23	Transistor	344-16064	050	Q1673 Transistor BC847BW SOT323	. Transistor	344-27272	050
Q1057 Transistor BC817-25W SOT323	Transistor	344-28405	050	Q1682 Transistor BC847BW SOT323			050
Q1094 Transistor BC847BW SOT323	Transistor	344-27272	050	Q1752 Transistor BC847BW SOT323	. Transistor	344-27272	050
Q1099 Transistor BC847BW SOT323	Transistor	344-27272	050	Q1758 Transistor BC847BW SOT323	. Transistor	344-27272	050
Q1122 Transistor BC847BW SOT323	Transistor	344-27272	050	Q1760 Transistor BC847BW SOT323	. Transistor	344-27272	050
Q1132 Transistor BC847BW SOT323	Transistor	344-27272	050	Q1763 Transistor BC847BW SOT323	. Transistor	344-27272	050
Q1152 Transistor BC847BW SOT323	Transistor	344-27272	050	Q1766 Transistor BC847BW SOT323	. Transistor	344-27272	050
Q1158 Transistor BC847BW SOT323	Transistor	344-27272	050	Q1771 Transistor BC847BW SOT323	. Transistor	344-27272	050
Q1160 Transistor BC857BW SOT323	Transistor	344-28404	050	Q1791 Transistor BC847BW SOT323	. Transistor	344-27272	050
Q1163 Transistor BC857BW SOT323	Transistor	344-28404	050	Q1796 Transistor BC847BW SOT323	. Transistor	344-27272	050
Q1167 Transistor BC817-25W SOT323	Transistor	344-28405	050	Q1847 Transistor BC847BW SOT323	. Transistor	344-27272	050
Q1193 Transistor BC847BW SOT323	Transistor	344-27272	050	Q1857 Transistor BC847BW SOT323	. Transistor	344-27272	050
Q1214 Transistor BC847BW SOT323	Transistor	344-27272	050	Q1866 Transistor BC857BW SOT323	. Transistor	344-28404	050
Q1219 Transistor BC847BW SOT323	Transistor	344-27272	050	Q1875 Transistor BC857BW SOT323	. Transistor		050
Q1223 Transistor BC847BW SOT323	Transistor	344-27272	050	Q1896 Transistor BC857BW SOT323	. Transistor	344-28404	050
Q1225 Transistor BC857BW SOT323	Transistor	344-28404	050	Q1961 Transistor BC847BW SOT323			050
Q1229 Transistor BC847BW SOT323	Transistor	344-27272	050	Q1963 Transistor BC847BW SOT323	. Transistor	344-27272	050
Q1233 Transistor BC847BW SOT323	Transistor	344-27272	050	Q1966 Transistor BC857BW SOT323	. Transistor	344-28404	050
Q1235 Transistor BC857BW SOT323	Transistor	344-28404	050	Q1967 Transistor BC857BW SOT323			050
Q1239 Transistor BC847BW SOT323	Transistor	344-27272	050	Q1968 Transistor BC857BW SOT323	. Transistor	344-28404	050
Q1240 Transistor BC857BW SOT323	Transistor	344-28404	050	Q1991 Transistor BC857BW SOT323	. Transistor	344-28404	050
Q1243 Transistor BC857BW SOT323	Transistor	344-28404	050	Q1997 Transistor BC847BW SOT323	. Transistor	344-27272	050
Q1252 Transistor BC847BW SOT323	Transistor	344-27272	050				
Q1266 Transistor BC847BW SOT323	Transistor	344-27272	050	Bedienteil / Control Unit		ArtNr. 87506.08	31
Q1272 Transistor BC817-25W SOT323	Transistor	344-28405	050	Pos.Nr. Bestell-Bezeichnung	Description	Bestell-Nr.	Var.
Q1291 Transistor BC847BW SOT323	Transistor	344-27272	050	_	Description		
Q1296 Transistor BC847BW SOT323	Transistor	344-27272	050	Item N°.		List Part N°.	Var.
Q1320 Transistor BC847BW SOT323	Transistor	344-27272	050	SPULEN	COILS		
Q1323 Transistor BC847BW SOT323	Transistor	344-27272	050	L8101 △ Relais 9VDC 350 Ohm	. Relay	387-25050	081
Q1325 Transistor BC857BW SOT323	Transistor	344-28404	050	T8101 △Trafo USA 115V	. Power Transformer	490-27748	081
Q1346 Transistor BC847BW SOT323	Transistor	344-27272	050	T8101 △Trafo USA 115V/8V/1A mit Thermosich	. Power Transformer	490-28963	081
Q1348 Transistor BC847BW SOT323	Transistor	344-27272	050	ALLGEM, MECHAN, TEILE	COMMON MECHANIC	ΑΙ ΡΑΡΤΟ	
Q1361 Transistor BC857BW SOT323	Transistor	344-28404	050	H8006 Halter/Diode vorm			081
Q1363 Transistor BC857BW SOT323	Transistor	344-28404	050				001
Q1367 Transistor BC857BW SOT323	Transistor	344-28404	050	INTEGR.SCHALTUNGEN	INTEGRATED CIRCUIT		
Q1372 Transistor BC847BW SOT323	Transistor	344-27272	050	I8016 IR-Empfänger (1-Farbstreifen)			081
Q1373 Transistor BC847BW SOT323	Transistor	344-27272	050	I8101 IC 78 L 05 ACP	. Integrated Circuit	349-15209020	081
Q1376 Transistor BC847BW SOT323	Transistor	344-27272	050	BUCHSEN/FASSUNGEN	SOCKETS		
Q1381 Transistor BC857BW SOT323			050	W8311 Chinch-Buchse rot	. Socket	323-17952	081
Q1416 Transistor BC847BW SOT323	Transistor	344-27272	050	W8321 Chinch-Buchse weiss			081
Q1426 Transistor BC847BW SOT323	Transistor	344-27272	050	W8331 Mini-DIN-Buchse 4-pol			081
Q1431 Transistor BC847BW SOT323			050	W8401 Kopfhörerbuchse (Klinke)			081
Q1436 Transistor BC857BW SOT323	Transistor	344-28404	050	, , , , ,			
Q1441 Transistor BC847BW SOT323			050	DIODEN	DIODES	054 07004643	001
Q1562 Transistor BC857BW SOT323			050	D8100 Gleichrichter B 40 C 800-R-A rund			081
Q1567 Transistor BC857BW SOT323			050	D8206 LED 3mm rot Lowcurrent			081
				D8207 LED 3mm grün Lowcurrent	. Coupier	353-22141	081

Doc Nr	Bestell-Bezeichnung	Description	Bestell-Nr.	Var
		Description		
tem N°.			List Part N°.	Var
	SCHALTER	SWITCHES		
38001	Taster vertikal (kurz)			081
	Taster vertikal (kurz)			081
8003	Taster vertikal (kurz)			081
88101	Netzschalter 2-pol.TYP 8013EM	Switch	471-25599	081
	WIDERSTÄNDE	RESISTORS		
R8105	10M J 0411	Resistor	367-27946Y05	081
R8301	10M J 0411	Resistor	367-27946Y05	081
	SMD TEILE	SMD PARTS		
08091	Diode 0,2A 75V SOD80 LL4148		351-15015	081
	Diode 0,2A 75V SOD80 LL4148			081
D8103	Diode 0,2A 75V SOD80 LL4148			081
D8106	Diode 0,2A 75V SOD80 LL4148			081
D8201	Diode ZD 5V6 SOD80 ZMM C ITT			081
D8201	Diode ZD 12V0 SOD80 0,5W			081
D8202	•			081
	Diode ZD 12V0 SOD80 0,5W			081
	Diode ZD 5V6 SOD80 ZMM C ITT			081
D8204	Diode ZD 12V0 SOD80 0.5W			081
D8205	Diode ZD 5V6 SOD80 ZMM C ITT			081
D8205	Diode ZD 12V0 SOD80 0,5W			081
D8211	Diode 0,2A 75V SOD80 LL4148			081
D8331	Diode ZD 12V0 SOD80 0,5W			081
D8336	Diode ZD 12V0 SOD80 0,5W			081
D8391	Diode 0,2A 75V SOD80 LL4148			081
D8392	•			081
D8491	Diode 0,2A 75V SOD80 LL4148			081
D8492	Diode 0,2A 75V SOD80 LL4148			081
	Transistor BC847B SOT23			081
	Transistor BC847B SOT23			081
	Transistor BC847B SOT23			091
	nteil / Control Unit		rtNr. 87777.08	
	Bestell-Bezeichnung	Description	Bestell-Nr.	Var
tem N°.	•		List Part N°.	Var
	VERBINDUNGSLEITUNG	CONNECTING CABLES		
	Netzverbindungskabel 1-pol.160lg		171-87516001	081
N8100				
N8100		COILS		
	SPULEN	COILS	007.05050	00.4
L8101 <i>∆</i>		Relay		081 081

Bedienteil / Control Unit		Art	Nr. 87777.08	87777.081	
Pos.Nr. Item N°	Bestell-Bezeichnung	Description	Bestell-Nr. List Part N°.	Var. Var.	
	ALLGEM.MECHAN.TEILE	COMMON MECHANICAL PAR			
H8006	Halter/Diode VORM	. Holder	602-84535055	081	
	INTEGR.SCHALTUNGEN	INTEGRATED CIRCUITS			
18016	IR-Empfänger (1-Farbsteifen)	Coupler	353-22155Y20	081	
I8101	IC 78 L 05 ACP	. Integrated Circuit	349-15209020	081	
	DIODEN	DIODES			
D8100	Gleichrichter B 40 C 800-R-A rund			081	
	LED 3mm rot Lowcurrent	•		081	
D8207	LED 3mm grün Lowcurrent	•	353-22141	081	
	SCHALTER	SWITCHES			
S8001	Taster vertikal (kurz)			081	
S8002 S8003	Taster vertikal (kurz)			081 081	
S8101	Netzschalter 2-pol.TYP 8013EM			081	
00101			47 1 20000	001	
R8301	WIDERSTÄNDE 10M J 0411	RESISTORS Posietor	267 27046V05	081	
R8302	10M J 0411			081	
110002	SMD TEILE	SMD PARTS	307 27340103	001	
D8091	Diode 0,2A 75V SOD80 LL4148		351-15015	081	
D8092	Diode 0,2A 75V SOD80 LL4148			081	
D8103	Diode 0,2A 75V SOD80 LL4148			081	
D8106	Diode 0,2A 75V SOD80 LL4148	Diode	351-15015	081	
D8201	Diode ZD 5V6 SOD80 ZMM C ITT			081	
D8201	Diode ZD 12V0 SOD80 0,5W			081	
D8202	Diode ZD 5V6 SOD80 ZMM C ITT			081	
D8202 D8204	Diode ZD 12V0 SOD80 0,5W Diode ZD 5V6 SOD80 ZMM C ITT			081 081	
D8204	Diode ZD 12V0 SOD80 0,5W			081	
D8205	Diode ZD 5V6 SOD80 ZMM C ITT			081	
D8205	Diode ZD 12V0 SOD80 0,5W			081	
D8211	Diode 0,2A 75V SOD80 LL4148			081	
D8331	Diode ZD 12V0 SOD80 0,5W			081	
D8336	Diode ZD 12V0 SOD80 0,5W			081	
D8391	Diode 0,2A 75V SOD80 LL4148			081	
D8392 D8491	Diode 0,2A 75V SOD80 LL4148 Diode 0,2A 75V SOD80 LL4148			081 081	
D8491 D8492	Diode 0,2A 75V SOD80 LL4148			081	
Q8002	Transistor BC847B SOT23			081	
Q8111	Transistor BC847B SOT23			081	
Q8114	Transistor BC847B SOT23			081	

-me mr	Postall Parsichnums		Doctoli Na	1/-
i os.ivi. Item N°.	Bestell-Bezeichnung	Description	Bestell-Nr. List Part N°.	Va Va
tem N .		Description	LIST PART IN .	va
10044	BAUGRUPPEN	UNITS	000 0777004	
	Bedienteil kpl. Planus A2400IDUNGSLEITUNG		396-87777081	
	Netzkabel USA m. Drossel 3200lg		170-87684002	
10102	KNÖPFE	BUTTONS	170 07004002	
150	Knopf/Netzsch. schw		682-84569102	
170	Knopf/Taster schwarz			
	GEHÄUSETEILE	CABINET MOUNTING	002 00001111	
30	Träger / Bedien. schwarz		541-87076702	08
30	Träger / Bedien. USA arktis			08
40	Klappe / Bedien. schwarz			08
40	Klappe / Bedien. hellgrau metallic			80
50	Klemmhalter für Bedienschublade	. Holder	602-16603	
60	Fenster/Infra	. Window	666-86736001	
tem N°.	Bestell-Bezeichnung	Description	Bestell-Nr. List Part N°.	Va Va
CIII IN .	VERBINDUNGSLEITUNG	CONNECTING CABLES	LIST FAIT IN .	٧a
N8100	Netzverbindungskabel 1-pol.160lg		171-87516001	
10100		. Connecting Cable		Nε
		COILC		30
2101 ∧	SPULEN Polais 9\/DC 350 Ohm	COILS Relay		
	Relais 9VDC 350 Ohm	. Relay	387-25050	90
Γ8101∆		. Relay Power Transformer	387-25050 490-27748	80
Γ8101∆	ARelais 9VDC 350 Ohm ATrafo USA 115V ATrafo USA 115V/8V/1A mit Thermosich	Relay Power Transformer Power Transformer	387-25050 490-27748 490-28963	80
Γ8101 <i>Δ</i> Γ8101 <i>Δ</i>	ARelais 9VDC 350 Ohm ATrafo USA 115V	Relay Power Transformer Power Transformer COMMON MECHANICAL PAR	387-25050 490-27748 490-28963	08 08 08
Γ8101 <i>Δ</i> Γ8101 <i>Δ</i>	ARelais 9VDC 350 Ohm Trafo USA 115V Trafo USA 115V/8V/1A mit Thermosich ALLGEM.MECHAN.TEILE	Relay Power Transformer Power Transformer COMMON MECHANICAL PAR	387-25050 490-27748 490-28963	08 08 08
Γ8101 <i>Δ</i> Γ8101 <i>Δ</i> Η8006	ARelais 9VDC 350 Ohm ATrafo USA 115V ATrafo USA 115V/8V/1A mit Thermosich ALLGEM.MECHAN.TEILE Halter/Diode vorm	Relay Power Transformer Power Transformer COMMON MECHANICAL PAR Holder INTEGRATED CIRCUITS	387-25050 490-27748 490-28963 TS 602-84535052	80 80 80 80
Γ8101 <i>Δ</i> · Γ8101 <i>Δ</i> · ⊣8006 8016	ARelais 9VDC 350 Ohm ATrafo USA 115V ATrafo USA 115V/8V/1A mit Thermosich ALLGEM.MECHAN.TEILE Halter/Diode vorm	Relay	387-25050 490-27748 490-28963 TS 602-84535052 353-22155Y20	08 08 08 08
Γ8101 <i>Δ</i> · Γ8101 <i>Δ</i> · Η8006 8016	ARelais 9VDC 350 Ohm ATrafo USA 115V ATrafo USA 115V/8V/1A mit Thermosich ALLGEM.MECHAN.TEILE Halter/Diode vorm INTEGR.SCHALTUNGEN IR-Empfänger (1-Farbstreifen)	Relay	387-25050 490-27748 490-28963 TS 602-84535052 353-22155Y20	08 08 08 08
Γ8101. Γ8101. 18006 8016 8101	ARelais 9VDC 350 Ohm	Relay	387-25050 490-27748 490-28963 TS 602-84535052 353-22155Y20 349-15209020	08 08 08 08 08
Γ8101.Δ Γ8101.Δ H8006 8016 8101	ARelais 9VDC 350 Ohm	Relay	387-25050 490-27748 490-28963 TS 602-84535052 353-22155Y20 349-15209020	08 08 08 08 08
Γ8101.Δ Γ8101.Δ H8006 8016 8101 W8351	ARelais 9VDC 350 Ohm Trafo USA 115V ATrafo USA 115V/8V/1A mit Thermosich ALLGEM.MECHAN.TEILE Halter/Diode vorm. INTEGR.SCHALTUNGEN IR-Empfänger (1-Farbstreifen) IC 78 L 05 ACP BUCHSEN/FASSUNGEN Kombibuchse	Relay	387-25050 490-27748 490-28963 TS 602-84535052 353-22155Y20 349-15209020 323-28586	08 08 08 08 08 08
T8101	ARelais 9VDC 350 Ohm	Relay Power Transformer Power Transformer COMMON MECHANICAL PAR Holder INTEGRATED CIRCUITS Coupler Integrated Circuit SOCKETS Socket DIODES Rectifier Coupler	387-25050 490-27748 490-28963 TS 602-84535052 353-22155Y20 323-28586 354-27624040 353-22140	08 08 08 08 08
F8101 ↑↑ F8101 ↑↑ F8101 ↑↑ F8006 8016 8101 W8351 D8101 D8206	ARelais 9VDC 350 Ohm	Relay Power Transformer Power Transformer COMMON MECHANICAL PAR Holder INTEGRATED CIRCUITS Coupler Integrated Circuit SOCKETS Socket DIODES Rectifier Coupler	387-25050 490-27748 490-28963 TS 602-84535052 353-22155Y20 323-28586 354-27624040 353-22140	080 080 080 080 080 080 080
F8101 ↑↑ F8101 ↑↑ F8101 ↑↑ F8006 8016 8101 W8351 D8101 D8206	ARelais 9VDC 350 Ohm	Relay Power Transformer Power Transformer COMMON MECHANICAL PAR Holder INTEGRATED CIRCUITS Coupler Integrated Circuit SOCKETS Socket DIODES Rectifier Coupler	387-25050 490-27748 490-28963 TS 602-84535052 353-22155Y20 323-28586 354-27624040 353-22140	080 080 080 080 080 080 080
T8101 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ARelais 9VDC 350 Ohm ATrafo USA 115V ATrafo USA 115V/8V/1A mit Thermosich ALLGEM.MECHAN.TEILE Halter/Diode vorm INTEGR.SCHALTUNGEN IR-Empfänger (1-Farbstreifen) IC 78 L 05 ACP BUCHSEN/FASSUNGEN Kombibuchse DIODEN Gleichrichter B 40 C 800-R-A rund LED 3mm rot Lowcurrent LED 3mm grün Lowcurrent	Relay	387-25050 490-27748 490-28963 TS 602-84535052 353-22155Y20 349-15209020 323-28586 354-27624040 353-22140 353-22141 467-28135	08 08 08 08 08 08 08
T8101 A T8101 A H8006 I8016 I8101 W8351 D8101 D8206	ARelais 9VDC 350 Ohm	Relay	387-25050 490-27748 490-28963 TS 602-84535052 353-22155Y20 349-15209020 323-28586 354-27624040 353-22140 353-22141 467-28135 467-28135	08 08 08 08 08 08 08 08 08 08 08

Bedienteil / Control Unit		A	ArtNr. 87819.081		
Pos.Nr.	Bestell-Bezeichnung	Description	Bestell-Nr.	Var.	
Item N°	-	•	List Part N°.	Var.	
	ALLGEM.MECHAN.TEILE	COMMON MECHANICAL PA	RTS		
	WIDERSTÄNDE	RESISTORS			
R8301	10M J 0411	Resistor	367-27946Y05	081	
R8302	10M J 0411	Resistor	367-27946Y05	081	
	SMD TEILE	SMD PARTS			
D8011	Diode 0,2A 75V SOD80 LL4148	. Diode	351-15015	081	
D8012	Diode 0,2A 75V SOD80 LL4148	. Diode	351-15015	081	
D8103	Diode 0,2A 75V SOD80 LL4148	. Diode	351-15015	081	
D8106	Diode 0,2A 75V SOD80 LL4148	. Diode	351-15015	081	
D8201	Diode ZD 5V6 SOD80 ZMM C ITT	. Diode	351-16758	081	
D8201	Diode ZD 12V0 SOD80 0,5W	. Diode	351-17532	081	
D8202	Diode ZD 5V6 SOD80 ZMM C ITT	. Diode	351-16758	081	
D8202	Diode ZD 12V0 SOD80 0,5W	. Diode	351-17532	081	
D8204	Diode ZD 5V6 SOD80 ZMM C ITT	. Diode	351-16758	081	
D8204	Diode ZD 12V0 SOD80 0,5W	. Diode	351-17532	081	
D8205	Diode ZD 5V6 SOD80 ZMM C ITT	. Diode	351-16758	081	
D8205	Diode ZD 12V0 SOD80 0,5W	. Diode	351-17532	081	
D8211	Diode 0,2A 75V SOD80 LL4148	. Diode	351-15015	081	
D8331	Diode ZD 12V0 SOD80 0,5W	. Diode	351-17532	081	
D8336	Diode ZD 12V0 SOD80 0,5W			081	
D8391	Diode 0,2A 75V SOD80 LL4148	. Diode	351-15015	081	
D8392	Diode 0,2A 75V SOD80 LL4148	. Diode	351-15015	081	
D8491	Diode 0,2A 75V SOD80 LL4148	. Diode	351-15015	081	
D8492	Diode 0,2A 75V SOD80 LL4148	. Diode	351-15015	081	
Q8002	Transistor BC847B SOT23	. Transistor	344-14974	081	
Q8111	Transistor BC847B SOT23	. Transistor	344-14974	081	
Q8114	Transistor BC847B SOT23	. Transistor	344-14974	081	

hrplatte / CRT Board	Ar	ArtNr. 87833.053-055		
· ·	Description	20000	/ar. /ar.	
SPULEN/LAUTSPRECHER	COILS,SPEAKERS			
Dr. 2x 33U DK31 (931 112/13)	Choke	298-24612		
Dr. 4U7 K LAL03VT/VB T.YUD	Choke	298-18104020		
ALLGEM.MECHAN.TEILE	COMMON MECHANICAI	L PARTS		
Montageclip 6mm	Spring	739-10230		
INTEGR.SCHALTUNGEN	INTEGRATED CIRCUITS	;		
IC TDA6120N2	Integrated Circuit	349-27260		
IC TDA6120N2	Integrated Circuit	349-27260		
IC TDA6120N2	Integrated Circuit	349-27260		
	Dr. 2x 33U DK31 (931 112/13) Dr. 4U7 K LALO3VT/VB T.YUD. ALLGEM.MECHAN.TEILE Montageclip 6mm INTEGR.SCHALTUNGEN IC TDA6120N2 IC TDA6120N2	Bestell-Bezeichnung SPULEN/LAUTSPRECHER Dr. 2x 33U DK31 (931 112/13) Choke	Bestell-Bezeichnung Description Bestell-Nr. List Part N°. No. SPULEN/LAUTSPRECHER COILS,SPEAKERS Dr. 2x 33U DK31 (931 112/13) Choke	

	ohrplatte / CRT Board Bestell-Bezeichnung	Description	Nr. 87833.053-05 Bestell-Nr.	Var
Pos.nr. Item N°	•	Description	List Part N°.	
item N			LIST PART IN .	Var
	BUCHSEN/FASSUNGEN	SOCKETS		
20	Bildrohrfassung			054
20	Bildrohrfassung			055
20	Bildrohrfassung	Socket	320-24766	053
	TRANSISTOREN	TRANSISTORS		
Q221	BC640	. Transistor	346-25720020	
Q222	BC639	. Transistor	346-75622020	
	DIODEN	DIODES		
D351	SD 103C Schottky-Diode	Diode	352-17741	
D367	1 N 4007			
	KONDENSATOREN	CAPACITORS		
C154	Elko 22µ S 250V R5 10x22 360-8		260 11762020	
C154	10N M2000V R7,5			
C364		•		
	100N K 250V R5 Elko 22μ S 250V R5 10x22 360-8			
C366 C367	Elko 22μ S 250V R5 10x22 360-8			
C368	1N M1000V R5 D<9			
C370	100N K 250V R5	•		
C380	100N K 250V R5	•		
C390	100N K 250V R5	•		
0000	WIDERSTÄNDE		555 205 10020	
40		RESISTORS	007.07040	
10 D452 A	18K F 0414			
	3R3 J SI 0207 0,50W			
	. 3R3 J SI 0207 0,50W . 33R K SI 0207 0,5 W			
R364	10R J 0207 LV366-1			
R367	1M J 0207 LV366-1			
R368	1K5 K 0411			
R369	10K K 0411			
R374	18K F 0414 geschnitten			
R378	220R 10% 0411 SC1/2			
R384	18K F 0414 geschnitten			
R388	220R 10% 0411 SC1/2			
R394	18K F 0414 geschnitten			
R398	220R 10% 0411 SC1/2			
	SMD TEILE			
D218	Diode BA 592 SOD323	SMD PARTS	251 25010	
D210 D219	Diode BA 592 SOD323			
D219 D322	Diode 0,2A 75V SOD80 LL4148			
D322 D341	Diode 0,2A 75V SOD80 LL4148			
	Diode 0,2A 75V SOD80 LL4148			
D342 D371	Diode 0,2A 75V SOD80 LL4148			
D371 D377	•			
	Diode BAV103 Implotec-Diode Diode BAV103 Implotec-Diode			
D378	Diode 0,2A 75V SOD80 LL4148			
D381	Diode BAV103 Implotec-Diode			

Bildrohrplatte / CRT Board			ArtNr. 87833.053-055		
Pos.Nr. Item N°.	Bestell-Bezeichnung	Description		ar. ar.	
D388	Diode BAV103 Implotec-Diode	Diode	351-27246		
D391	Diode 0,2A 75V SOD80 LL4148	. Diode	351-15015		
D397	Diode BAV103 Implotec-Diode	. Diode	351-27246		
D398	Diode BAV103 Implotec-Diode	. Diode	351-27246		
Q157	Transistor BC856BW SOT323	. Transistor	344-28629		
Q161	Transistor BC847BW SOT323	. Transistor	344-27272		
Q162	Transistor BC857BW SOT323	.Transistor	344-28404		
Q171	Transistor BC847BW SOT323	. Transistor	344-27272		
Q172	Transistor BC857BW SOT323	. Transistor	344-28404		
Q181	Transistor BC847BW SOT323	. Transistor	344-27272		
Q182	Transistor BC857BW SOT323	.Transistor	344-28404		
Q204	Transistor BC847BW SOT323	. Transistor	344-27272		
Q211	Transistor BC857BW SOT323	.Transistor	344-28404		
Q213	Transistor BC847BW SOT323	. Transistor	344-27272		
Q216	Transistor BC847BW SOT323	. Transistor	344-27272		
Q321	Transistor BC847BW SOT323	. Transistor	344-27272		
Q326	Transistor BFN23 SOT23	Transistor	344-15350		
Q341	Transistor BC857BW SOT323	.Transistor	344-28404		
Q343	Transistor BC847BW SOT323	.Transistor	344-27272		
Q362	Transistor BC857BW SOT323	. Transistor	344-28404		

Rotation Panel		Art.	-Nr.: 87281.050/051
Pos.Nr. Item N°	Bestell-Bezeichnung	Description	Bestell-Nr. List Part N°.
10001	INTEGR.SCHALTUNGEN LM 2902-M	INTEGRATED CIRCUITSIntegrated Circuit	350-19705
	TRANSISTOREN BC 547 B	TRANSISTORSTransistor	346-74983.020
	BC 557 B		346-74878.020
	SPEZIALTEILE	SPECIAL PARTS	
W0001	Stiftleiste 3-pol. schwarz	Contact Ledge	326-26651
W0031	Stiftwanne 2-pol. grün	Contact Cabinet	326-26769

Entmagnetisierung / Degaussing Switch			ArtNr. 87862.050		
Pos.Nr. Item N°	Bestell-Bezeichnung	Description	Bestell-Nr. List Part N°.	Var. Var.	
l711∆	INTEGR.SCHALTUNGEN IC PC3SF21YTZB DIP6	INTEGRATED CIRCUITS Integrated Circuit	349-28561	050	
	DIODEN	DIODES			
10	Triac BTA08-600 TO220	Thyristor	348-26891	050	
Y711	Triac BTA08-600A OD.S	Thyristor	348-26891Y20	050	
	WIDERSTÄNDE	RESISTORS			
10	220R J 0207	. Resistor	366-15679	050	
R706	3R DUO-PTC Wid	. PTC Resistor	372-27970	050	
R711	1K5 J 0414 1W R15	Resistor	367-20657	050	
R712	1K5 J 0414 1W R15	Resistor	367-20657	050	
R726	220R J 0207	. Resistor	366-15679Y01	050	

VGA	IR Adapter	Art	ArtNr. 87717.060		
Pos.Nr	. Bestell-Bezeichnung	Description	Bestell-Nr.	Var.	
Item N ^c	•		List Part N°.	Var.	
	INTEGR.SCHALTUNGEN	INTEGRATED CIRCUITS			
I811	ICMOS 74HCT 86 SO14	Integrated Circuit	. 350-16065	060	
1891	ICMOS 74HCT 00 SO14			060	
1896	IC SN74LS92D SO14 TTL	Integrated Circuit	. 350-28484	060	
	BUCHSEN/FASSUNGEN	SOCKETS			
W801	Subminiatur-Buchse 15-pol	Socket	. 323-28415	060	
W881	Kopfhörerbuchse 3,5mm Mono	Socket	. 323-28672	060	
	QUARZE/FILTER	QUARTZES			
X893	Piezo Filter 429,0 KHz	Ceramic Filter	. 386-18622	060	
	WIDERSTÄNDE	RESISTORS			
10	33R J 0207	Resistor	366-22944	060	
R882 <u></u>	33R geschnitten RM10	Resistor	. 366-22944Y01	060	
	SMD TEILE	SMD PARTS			
Q881	Transistor BC807-25 SOT23	Transistor	. 344-16064	060	

Freq	uenzweiche / Cross-over N	ArtNr. 85729.068		
Pos.N	r. Bestell-Bezeichnung		Bestell-Nr.	Var.
Item N	٥.	Description	List Part N°.	Var
	WIDERSTÄNDE	RESISTORS		
R 10	10M J 0411	Resistor	367-19664Y03	068
	KONDENSATOREN	CAPACITORS		
C 01	4μ7 K 50V 10x20	Electrolytic Capacitor	360-25592Y08	068
C 02	22μ K 50V 13x27	Electrolytic Capacitor	360-25592Y17	068
	SPULEN	COILS		
L 10	1m8 LV298-22671	Coil	367-22671	068
	SPEZIALTEILE	SPECIAL PARTS		
40	Klebefuß 40x4	Foam Plastics Ledge	411-18668	068
N 03	Schaltleitung 1-pol. 350 lg. violett	Connecting Cable	171-88123053	068
N 04	Schaltleitung 1-pol. 350 lg. braun	Connecting Cable	171-88123054	068
N 05	Kabelbaum 3-pol.130 lg. schwarz			068
N 08	Kabelbaum 2-pol.450 lg. schwarz	Connecting Cable	171-86705051	068
N 10	Masseleitung 1-pol. 550 lg. braun	Connecting Cable	171-88123054	068
W 01	Stiftwanne 2-pol. schwarz, stehend	Contact Ledge	326-79604	068

Frequenzweiche / Cross-over Network			ArtNr. 85729.069		
Pos.Nr.	Bestell-Bezeichnung		Bestell-Nr.	Var.	
Item N°.	•	Description	List Part N°.	Var	
	WIDERSTÄNDE	RESISTORS			
R 01	4R7 K 5,0 W	. Resistor	368-25590	069	
KONDE	NSATOREN	. CAPACITORS			
C 01	3μ3 K 50V 10x20	Electrolytic Capacitor	360-25591Y20	069	
	SPULEN	COILS			
L 01	0m56	. Coil	298-25645	069	
	SPEZIALTEILE	SPECIAL PARTS			
10	Fastonsteckhülse 160 173 2 AMP	. Spring Contact	332-13280	069	
10	Fastonsteckhülse 160 173 2 AMP	. Spring Contact	332-13280	069	
N 03	Schaltleitung 1-pol.300 lg. blau	. Connecting Cable	171-86489	069	
N 04	Schaltleitung 1-pol.300 lg. rot	. Connecting Cable	171-86487	069	
N 05	Kabelbaum 3-pol.130 lg. schwarz	. Connecting Cable	171-86706051	069	
W 01	Stiftwanne 2-pol. schwarz, stehend	. Contact Ledge	326-79604	069	

IR-Fe	rnbedienung / Infrared remo	te control	Artikel-Nr. 87000.00	63
Pos. N Item N	r. Bestell-Bezeichnung ·.	Description	Bestell-Nr. List Part N°.	Var. Var.
1474	INTEGR. SCHALTUNGEN	INTEGRATED CIRCU	-	0.50
l171	IC LM 358 SMD	Integrated Circuit	350-21521	050
	GEBER-ERSATZTEILE	SPARE PARTS FOR	TRANSMITTER	
20	Batteriefeder 1-fach			050
20	Batteriefeder	Spring	739-87217001	050
C121	Elko 220μ M 6V	Electrolytic Capacitor .	362-25508	050
D117	LED LG T679 SMD	Coupler	353-27021	050
D118	LED LG T679 SMD	Coupler	353-27021	050
D121	LED F.D.SFH 4515	Coupler	353-27024	050
D176	Fototransistor	Coupler	353-28307	050
I101	ICMOS PIC16LC62A-04/SS V.01	Integrated Circuit	350-28186	050
l151	ICMOS EEPROM 24CL16B/5N V.01	Integrated Circuit	350-28189	050
Q121	Transistor BCX17 SOT23	Transistor	344-25509	050
Q126	Transistor BC857B SOT23	Transistor	344-14979	050
X111	Keramicresonator 4MHz mit Kond	Ceramic Filter	386-28191	050
	SMD TEILE	SMD PARTS		
D181	Diode LL4148 SOD80	Diode	351-15015	050
D182	Diode 1PS76SB21 SOD323	Diode	351-28299	050
Q181	Transistor BC847B SOT23	Transistor	344-14974	050

NOTES			

Loewe Service Europe

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Mirage Holdings LTD Flamingo Complex Cannon Road M - Qormi Tel. 497182 Fax 445983

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CableCom AS Bekkevn. 9 N - 3218 Sandefjord Tel. 033 / 483348 Fax 033 / 483333

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PPHU PAROS Sp. zo.o. ul. Ustronie 1-3 PL - 50-302 Wroclaw Tel. 071 - 3222014, 3222017 Fax 071 - 3221061

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Ungarn

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Israel

RIF LTD 29, Izhak Sade Street IRS - Tel Aviv 67213 Tel. 03 - 6240555 Fax 03 - 6240303

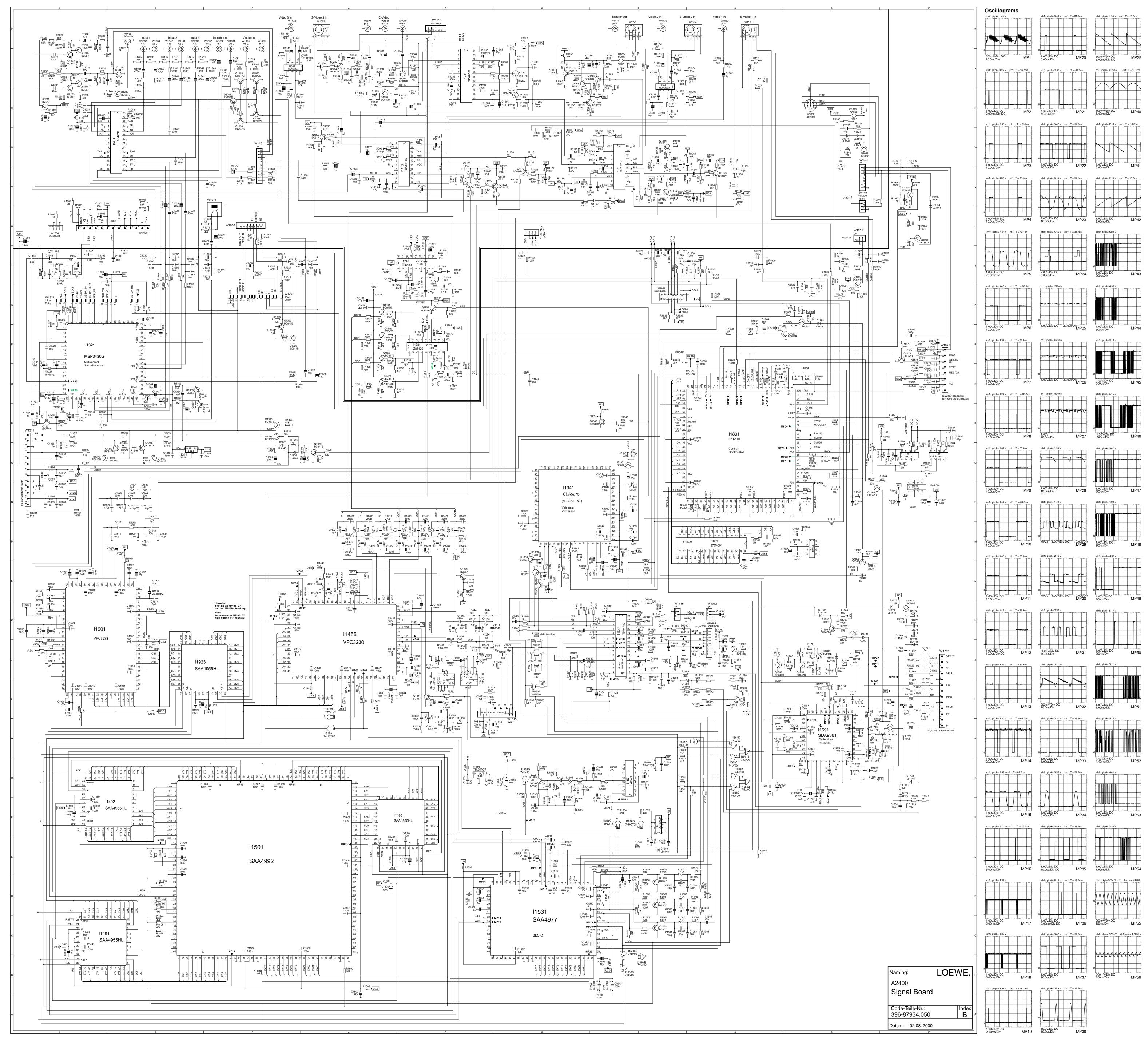
Ver. Arabische Emirate

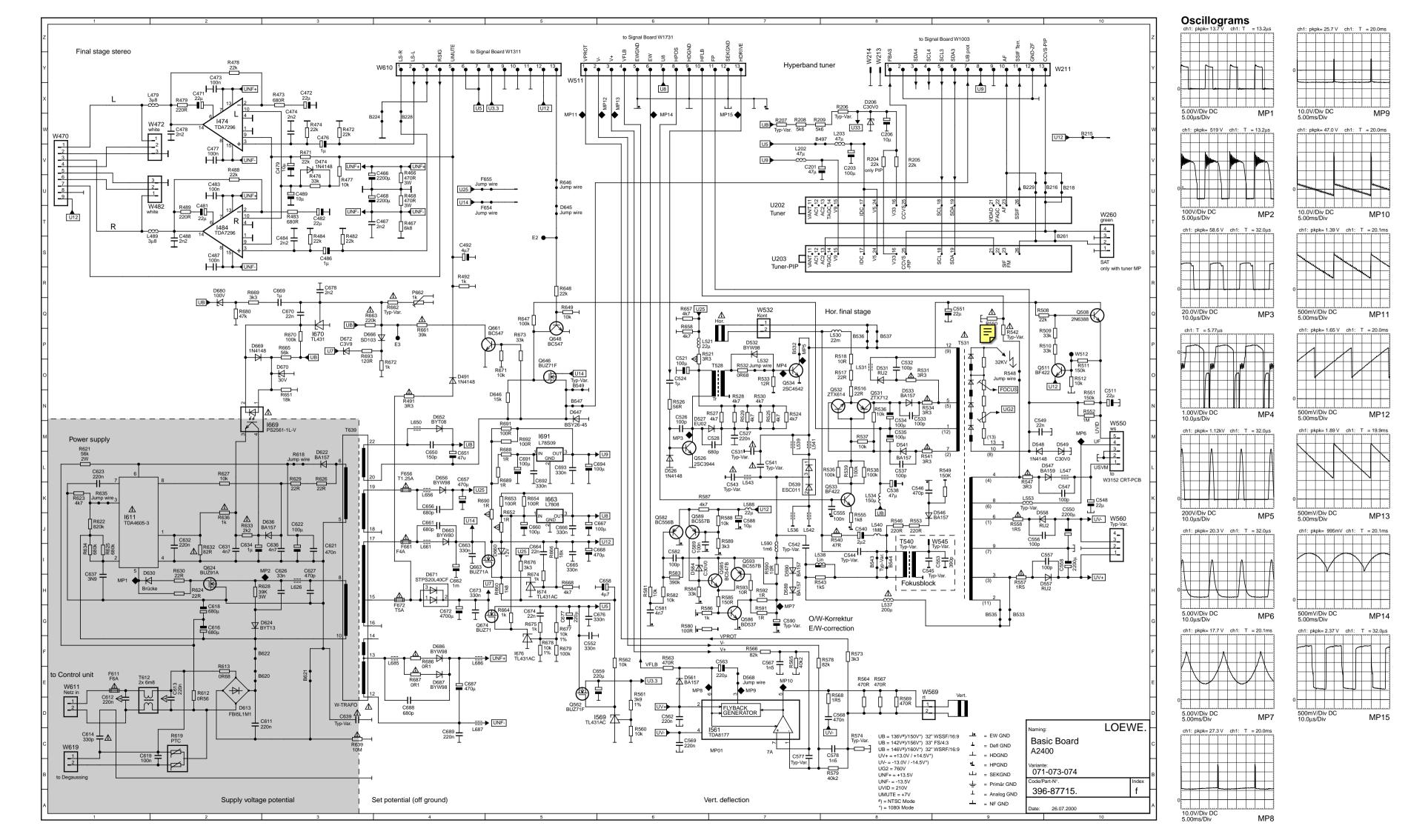
Super Trading Establishment P.O. Box 46409 Abu Dhabi. United Arab Emirates Tel. 02 - 748787

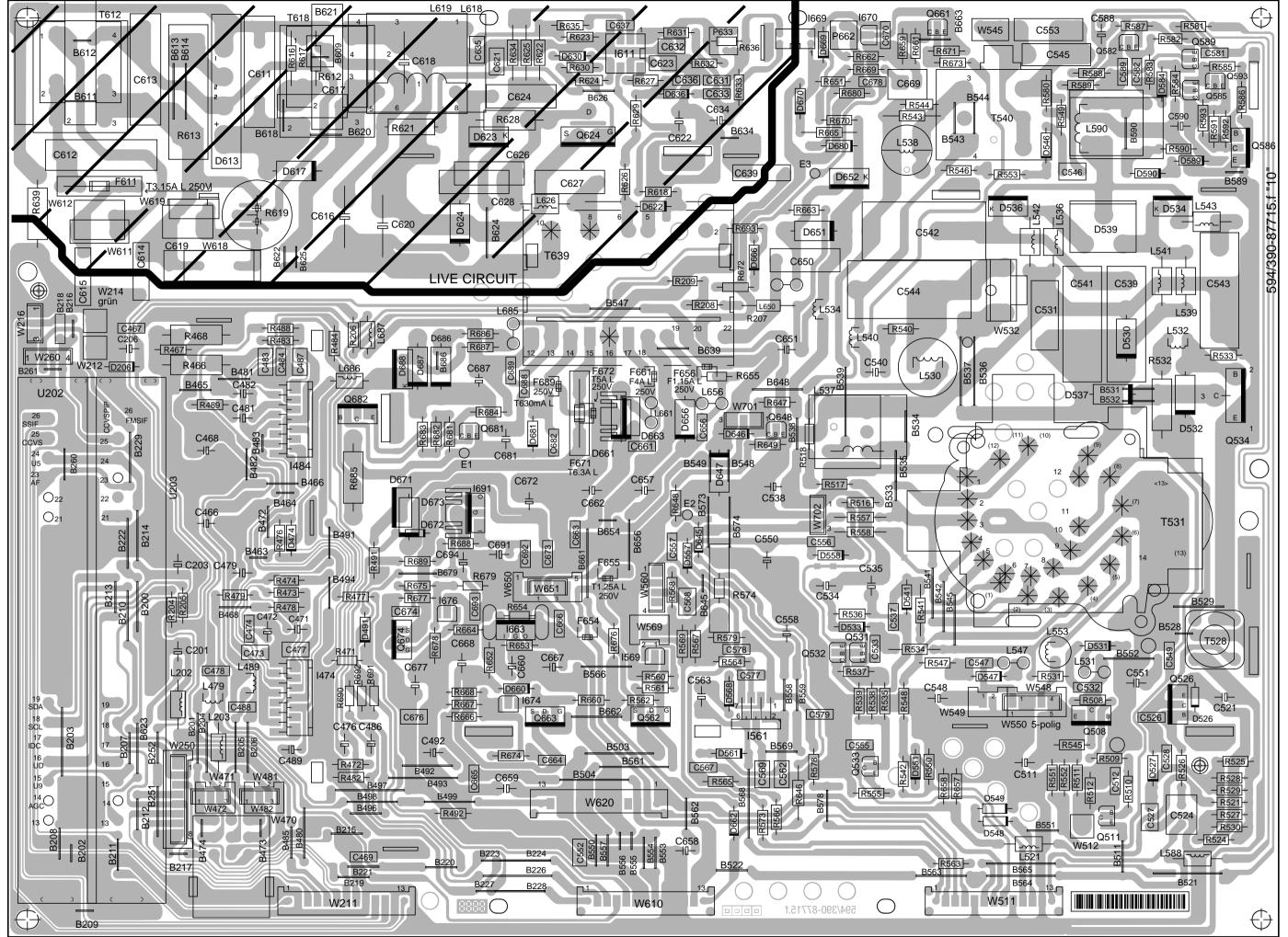
Fax 02 - 741156

SENSORY SCIENCE CORP. 7835 East McClain Drive, Scottsdale. Arizona USA 85260-1732 Tel. 602 - 9983400 Fax 602 - 9514404

Bag for Basic Board (Schematic & PCB) Signal Board (Schematic & PCB)







Basic Board Variants	Table of Variants NTSC mode (Measuring UB parallel to C651)				
Var.: 071	32Z.	16:9	Tuner US/USP	UB=136V	Umain=120V AC
Var.: 073	33Z.	4:3	Tuner US/USP	UB=142V	Umain=120V AC
Var.: 074	32Z.Rea	l flat 16:9	Tuner US/USP	UB=146V	Umain=120V AC
	1080i mode (Measuring UB plus pole C651 to Chassis GND)				
Var.: 071	32Z.	16:9	Tuner US/USP	UB=150V	Umain=120V AC
Var.: 073	33Z.	4:3	Tuner US/USP	UB=156V	Umain=120V AC
Var.: 074	32Z.Rea	l flat 16:9	Tuner US/USP	UB=160V	Umain=120V AC

Components Table 396-87715						
Pos.	Pos. Var.: 071		Var.: 074			
Pos. B543 B544 B549 C531 C541 C542 C543 C544 C545 C553 C577 C590 C639 C659 L553 R542	Var.: 071 * * Jump 2n7 9n1 680n 25n 900n 390p 390p 3n3 4μ7 2n2 220μ 44μ 1k8	Var.: 073 Jump Jump * 2n7 7n5 600n 22n 750n * * 1n5 4µ7 3n3 220µ 41µ 1k2	Var.: 074 * * Jump 2n2 7n5 520n 22n 680n 390p 390p 1n 2μ2 3n3 220μ 50μ 1k8			
R574	1R	0R68	0R82			
T540	AT4043/6	*	AT4043/6			
W545 W560	UG2 *	*	UG2 white			

